



**UNDERGRADUATE
BULLETIN
2019 - 2020**

**NYU SHANGHAI
上海纽约大学**

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NYU SHANGHAI**



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2019-2020

1555 Century Ave
Pudong, Shanghai
China 200122

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

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{ Part I }

Introduction and Overview

This is NYU Shanghai 这就是上海纽约大学

NYU Shanghai is the third degree-granting campus in NYU's global network, joining NYU in New York and NYU Abu Dhabi. It is a world-class, comprehensive liberal arts and sciences research university in the heart of Shanghai, and unlike any other university in the world.

Since 1831, NYU has proudly been in and of the city of New York, unencumbered by gates, intimately woven into the identity and landscape of one of the great idea capitals of the world. In the heart of Greenwich Village, the NYU community has flourished, gaining as much from the city as it has contributed.

Just as NYU is proudly in and of the city of New York, NYU is also proudly in and of the city of Shanghai, another great idea capital and a magnet for the best of intellect, culture, and inquiry from all over the world. But Shanghai is like no other place: a city of the future, it also has its own history and traditions, which are a vital part of its fabric. With its diverse resources—the educational foundation of NYU and the vibrancy and relevance of Shanghai—NYU Shanghai is where your classroom education intersects with a life's education.

The NYU Shanghai 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

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 East China Normal University; in New York University; in the interdependent society of humankind; and in a fully global ecosystem.

Research at NYU Shanghai

NYU Shanghai will continue in the great tradition of universities that combine world-class research with exceptional teaching. Research Institutes are focused on Mathematics, Computational Chemistry, Neuroscience, Physics, and Social Development with a Center for Big Data for Society and Business and a Center for Global Asia opening this year. Both graduate and undergraduate students at NYU Shanghai will have the opportunity to participate in research opportunities.

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.

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. The NYU Shanghai academic building is located along Century Avenue in Pudong, a location as central to Shanghai as Fifth Ave is to Manhattan.



WHERE WE ARE

Academic Building

The NYU Shanghai academic building located on Century Avenue in Pudong is surrounded by bustling activity, a lively community, and some of the most iconic buildings in the world—all right in the heart of a thriving economy and Shanghai's commercial center.

Fifteen stories tall, with two additional levels underground. It includes an expansive library, which will house an extensive physical and electronic collection with access to NYU's global library resources; a 300-seat auditorium; a 150-person colloquium space; a theater, music, and arts hall; and kitchen and dining facilities. Also generously equipped with classrooms capable of accommodating varying class sizes, dedicated floors for teaching and practical laboratories for various sciences, intimate study spaces, and faculty and administrative offices, the building functions as a campus unto itself and as the center of a thriving academic community. Wireless IT services and a robust IT infrastructure ensure that the building, and by extension, the students and faculty, remain fully connected to the NYU global network.

Residence Hall

The NYU Shanghai residence halls is located in the

JinQiao area of Pudong. Housed in three towers of the Green Center complex, the residence hall is located within an international hub with easy access to both local and international shops and restaurants. By living alongside fellow students and Resident Assistants, students will form intimate communities and the walls of the classroom will be broken down, allowing for education and an exchange of ideas to continue and flourish, unfettered by class schedules.

Location

At NYU Shanghai, students receive the support, engage in the activities, and participate in the community that they would expect from any other university in the world—except they'll have China as their canvas.

Just minutes away from the Century Avenue academic building, students will find a fully equipped athletics center that all NYU Shanghai students can use.

Beyond the walls of the residence hall are neighborhoods begging to be explored: the

dazzling lights of the Bund, the winding labyrinthine passages of Taikang Lu, and the picturesque solitude of the Lujiazui Boardwalk are just some of the places where students can while away an afternoon, eat xiaolongbao, and take in the sights and sounds.

And beyond the city limits of Shanghai, the country of China is available: the Great Wall, the Lingyin Temple, the Forbidden City, the Chengdu Panda Reserve, and more. China is, after all, a country with a vast, varying geography and demography, and a history no longer confined to just the pages of a book, but completely within reach of all NYU Shanghai students.

{ Part II }

Enrollment

Everything you need to know about:

- Admission
- Tuition, Fees, and Financial Aid
- Registration, Advisement, and Counseling
- Degree Requirements



Admission

Admission to NYU Shanghai is highly selective. Students are admitted based on the overall strength of their application, including rigor of curriculum and grades, extracurricular activities, teacher and counselor evaluations, and a demonstrated interest in global citizenship, service, and leadership.

NYU Shanghai Office of Undergraduate Admissions in Shanghai
(9am – 5pm China Standard Time)
Tel: +86 21 2059-5599
shanghai.admissions@nyu.edu

NYU Office of Undergraduate Admissions in New York
(9am – 5pm Eastern Standard Time)
Tel: +1 212-998-4500
shanghai.admissions@nyu.edu

Recommended High School Preparation

All applicants should pursue the most challenging curriculum available to them, as the rigor of a student's coursework will weigh heavily in the admissions process. NYU Shanghai considers a record of Honors, Advanced Placement (AP), International Baccalaureate (IB), A-Level or other high-level coursework to be an essential component of a successful application. In addition to advanced level courses, most successful applicants include many of the following areas of study in their high school programs:

- *English*—four years of English with a heavy emphasis on writing
- *Math*—three to four years
- *History/Social Studies*—three to four years
- *Science*—three to four years
- *Foreign Language*—three to four years

Please note that NYU Shanghai's language of instruction is English; therefore, it is required that all applicants have a high level of fluency in both written and spoken English. English language testing is not required for admission, but non-native English speakers may be asked to participate in a Skype interview or complete other English language assessments.

Applying to NYU Shanghai and Other NYU Campuses

Students can indicate their interest in being considered for admission to NYU Shanghai in addition to programs at NYU's campuses in New York City and Abu Dhabi on the Common Application.

Financial Support

NYU Shanghai is committed to providing the best financial aid package available based on an individual family's needs. As such, we invite all applicants, regardless of citizenship, to apply for financial aid through NYU Shanghai. US citizens and permanent residents should file the FAFSA and the CSS Profile; non-US citizens or permanent residents need only file the CSS Profile.

Transfer Applicants

NYU Shanghai currently only accepts first-year students. If you have already begun a university degree and are interested in applying, please contact our admissions office for more details.

Transfer Applicants Within the University

Students do not need to fill out an application to switch majors within NYU Shanghai. If a student wishes to explore the option of permanently transferring to another NYU campus, they must discuss their options with their academic advisor and the Dean of Students, who will counsel the student on if and when they may switch campuses.

Study Away Students

NYU undergraduate students from New York and Abu Dhabi may attend NYU Shanghai as full-time students for one or more semesters. Students should apply to study away through NYU's Office of Global Programs.

Special Undergraduate (Visiting Students)

Students from other four-year accredited undergraduate universities may attend NYU Shanghai as full-time students for one or more semesters. Students should apply to study away through NYU's Office of Global Programs.

Readmission of Former Students

Any former student who has been out of attendance for two or more consecutive terms and who wishes to return to NYU Shanghai must apply for readmission. Applications for readmission are available online (See next page for admission application deadlines). Requests for readmission should be received by the following dates: April 1 for the Summer and Fall terms, and November 1 for the Spring term.

Special (Postgraduate) Students

NYU Shanghai is not currently accepting postgraduate students to take undergraduate classes.

Advanced Standing

NYU Shanghai does not award credit for work completed at another college or university or advanced standing exams. In some cases, high school exam scores may be used for course placement. For a full list of eligible exams and scores, see: Core Curriculum Section.

How to Apply

USA/International

US/International students applying to NYU Shanghai may follow the same procedures for applying to any of NYU's degree-granting campuses:

- Apply to NYU Shanghai via the Common App (add NYU then ensure that Shanghai is listed as a campus of application on the Questions page)
- Submit test scores per our testing requirements (NYU Shanghai's US and International Standardized Testing Policy is the same as that of all of NYU's degree-granting campuses)
- Submit requested academic records and school reports
- Submit requested teacher and counselor recommendation letters
- Apply for Financial Assistance via the CSS Profile and FAFSA, if applicable, by stated deadlines

Please apply in accordance with the following deadlines:

Milestone	Date
<i>Early Decision I</i>	
Application Deadline	Nov 1
Notification Deadline	Dec 15
Response to an offer of admission	Jan 3
<i>Early Decision II</i>	
Application Deadline	Jan 1
Notification Deadline	Feb 15
Response to an offer of admission	Mar 1
<i>Regular Decision</i>	
Application Deadline	Jan 1
Notification Deadline	Apr 1
Response to an offer of admission	May 1

How to Apply for Financial Aid

All applicants (regardless of citizenship) will need to submit the CSS PROFILE application (and Noncustodial PROFILE, if applicable) for NYU Shanghai need-based grant consideration by:

- Early Decision I: November 15 (to receive a financial aid award in mid-December)
- Early Decision II: January 15th (to receive a financial aid award in mid-February)
- Regular Decision: February 20th (to receive a financial aid award by April 1)

Chinese Applicants Admissions Regulations

上海纽约大学2019年招生方案（中国大陆学生）

上海纽约大学将中美优质高等教育的优势相结合，精心打造注重激发和提升学生创新能力的课程体系、教学环境和培养模式，致力于将学生培养成为能够适应未来社会高速发展、全球化激烈竞争的精英人才。学生入学时不分专业，通过完成涵盖不同学科和领域的核心课程，在对各个学科的内容、前景，以及自身特点有了深入认识以后，最迟可在大二结束前完成专业的选择。从大三起学生可以选择前往纽约大学全球教育体系中的纽约校区、阿布扎比校区或11个学习中心进行为期1-2个学期的海外学习。

上海纽约大学在全面审视每位申请学生的通用申请和提交的材料基础上，通过“校园日活动”评价、高中学业和高考成绩相结合的招生录取模式，选拔出一批最适合上海纽约大学的优秀学生，而非采用高考成绩为单一依据的招生录取方法。其中，“校园日活动”是上海纽约大学首创的招生录取重要环节，着重考察学生的语言能力、综合素质，以及与学校的适合度和匹配度。

一、招生对象

上海纽约大学寻找的是学业优异、英语能力突出，具有强烈求知欲和好奇心，勇于挑战自我，乐于尝试新事物，能够适应国际化竞争环境，并且愿意成为跨文化沟通桥梁的优秀高中毕业生。

符合高考报名条件并参加2019年高考的学生均可申请报考上海纽约大学。

上海纽约大学对申请材料进行审核后，将从所有申请学生中邀请部分优秀学生参加“校园日活动”，并在考量学生“校园日活动”表现的基础上，结合高考、高中学业水平考试、综合素质评价等，通过高校招生综合评价体系录取学生。

二、招生计划

上海纽约大学2019年面向全国招收226名男生，招生计划不做分省安排，各省（自治区、直辖市）招生名额不设上下限，在所有申请学生中择优录取。

各省招生主管部门编印的《2019年普通高等学

校招生专业和计划》中的上海纽约大学招生计划数及专业名称，仅用于学生高考志愿填报，与各省（自治区、直辖市）最终录取人数和学生入学专业无关。

三、申请方式

1. 在线提交Slate申请

所有申请报考上海纽约大学的学生，都必须登录纽约大学Slate申请系统 (<https://connect.nyu.edu/apply>)，填写相关信息并完成两篇文书，于2019年1月1日前在线提交。

2. 在线填写并打印《上海纽约大学2019年校园日活动申请表》

完成“Slate申请”注册步骤后，学生需在上海纽约大学“校园日活动报名系统” (<https://cn.application.shanghai.nyu.edu/>) 实名注册，按要求在线填写、提交并打印《上海纽约大学2019年校园日活动申请表》。

“校园日活动报名系统”为上海纽约大学招生线上中文报名系统，通过身份证实名注册唯一个人账号。登录“校园日活动报名系统”，申请学生可以在线完成：

(1) 填写、提交、打印《上海纽约大学2019年校园日活动申请表》

(2) 查看最新官方招生公告和常见问题解答

(3) 查看各阶段申请状态和结果（申请状态和结果如有更新，将第一时间通过绑定的邮箱和手机告知）

(4) 获得预录取和待录取资格的学生在线填写高考成绩

3. 寄送书面申请材料

完成以上申请步骤后，学生还须向上海纽约大学招生办提交以下书面申请材料，所有申请材料应清晰、真实、完整。每页材料须在右上角空白处手写注明申请学生的Slate ID，用标准A4纸打印或复印，并按以下次序排放（申请材料请勿装订，不要加装各类订书针、封面、封底、装订夹等，以免剔除时误损申请材料）：

(1) 《上海纽约大学2019年校园日活动申请表》(请在上海纽约大学“校园日活动报名系统”下载打印,打印时务必选择A4纸格式)

(2) 高一、高二每学期期中期末成绩和高三期中成绩(须注明单科满分)、高中学业水平考试(会考)成绩复印件。以上材料均须加盖中学相关部门公章。如中学有既定的格式,以中学出具并加盖公章的成绩单为准。

上海、浙江的学生请同时提供已参加的选考科目成绩。

如发现成绩不实,经查实后一律取消学生的申请和录取资格,并将所在中学纳入非诚信学校。

(3) 高中期间主要获奖证书复印件及其他证明自己特长和优势的材料(非必需)。

申请材料须于2019年1月1日前以快递方式邮寄至上海纽约大学招生办公室(以当地寄出日期为准)。所有申请材料恕不退还,请学生自行备份。

邮寄地址:上海市浦东新区世纪大道1555号,上海纽约大学招生办公室收

邮编:200122 联系电话:021-2059 5599

四、选拔程序

1. 审核

上海纽约大学招生委员会将对学生的申请材料进行初审,并于2019年1月31日以电子邮件形式通知学生初审结果。

2. “校园日活动”

初审合格的学生受邀参加上海纽约大学“校园日活动”,学校将通过模拟课堂、英文写作、团队活动、个别面谈等方式考察学生的英语运用能力,以及求知欲、领导力、学习能力、适应能力、沟通表达能力、心理素质、团队精神等各方面素质。

“校园日活动”全程用英语进行,在春节后的周末分批进行,具体时间和地点将另行通知。

五、录取政策

上海纽约大学招生委员会将根据学生“校园日

活动”表现,对每位学生进行严谨的评价和讨论,并给予相应录取政策:

A. 预录取:学生须参加2019年普通高考,高考成绩达到生源所在省本科第一批录取控制线(一二本录取批次合并的省为自主招生控制分数线,浙江为第一段分数线),上海纽约大学即予以录取。

B. 待录取:学生须参加2019年普通高考,高考成绩达到生源所在省本科第一批录取控制线(一二本录取批次合并的省为自主招生控制分数线,浙江为第一段分数线),上海纽约大学将结合学生申请过程中的各项因素,包括高考成绩,综合评定,择优录取。

如考生所在省级招生办公室另有规定,则按省招办规定办理。

六、学费及助学金

2019年入学本科生学费:第一、二学年每年人民币120,000元,第三、四学年每年人民币180,000元。

被上海纽约大学录取的学生,学校将根据学生在“校园日活动”中的表现和申请材料给予部分学生奖学金与预录取结果一并发放,高考后不另设奖学金。奖学金设二档,将按学期分四年发放:全球典范奖,共人民币240,000元;全球菁英奖,共人民币120,000元。

对于被上海纽约大学录取、但家庭无法承担学习和生活费用的学生,在学生按要求提供的家庭经济状况信息真实完整的前提下,学校将酌情提供助学金,学校不希望被录取的学生因家庭经济困难而失去终身发展的机会。

学生在校期间,还可申请国家助学贷款,及各级奖助学金。学校还会提供大量校外实习机会进一步帮助学生减轻经济负担。

七、颁发证书

上海纽约大学学生修学期满,符合毕业要求,将获得以下全日制本科证书:

1. 上海纽约大学学士学位证书(中华人民共和国教育部监制)

2. 上海纽约大学毕业证书(中华人民共和国教育部监制)

3. 美国纽约大学学士学位证书（美国纽约大学颁发）

八、监督机制

上海纽约大学的招生过程坚持公平、公开、公正的原则，保证不同经济背景、种族、性别、宗教信仰的学生都有机会申请入学，接受考生及家长与社会各界的监督。

监督电话：021-2059 5255

监督邮箱：shanghai.jiandu@nyu.edu

九、联系方式

学校网址：www.shanghai.nyu.edu

咨询热线：021-2059 5599

咨询邮箱：shanghai.admissions@nyu.edu

咨询现场：上海市世纪大道1555号上海纽约大学咨询中心

官方微博：上海纽约大学招生办（新浪微博）

官方QQ群：

NYUSH招生官方 - 华东 111393813

（上海、浙江、江苏、安徽、福建、江西、山东）

NYUSH招生官方 - 华北东北 312415903

（北京、天津、河北、山西、内蒙古、黑龙江、吉林、辽宁）

NYUSH招生官方 - 西南西北 584188864

（重庆、四川、贵州、云南、西藏、陕西、甘肃、青海、宁夏、新疆）

NYUSH招生官方 - 华中华南 605743020

（河南、湖北、湖南、广东、广西、海南、港澳台）

官方微信：NYUSHZS

Tuition, Fees, and Financial Aid

When estimating the net cost to the family of a university education, a student should consider two factors: (1) the total cost of tuition, fees, and materials related to a particular program, plus costs directly related to the choice of living style (dormitory, apartment, and commuting costs) and (2) financial aid that may be available from a variety of sources. This section provides information on both of these distinct but related topics.

The following is the schedule of fees established by NYU Shanghai for the year 2019-2020. NYU Shanghai reserves the right to alter this schedule without notice. Tuition, fees, and expenses can be expected to increase in subsequent years and will be listed in online updates to this Bulletin.

Registration and school based fees cover additional expenses related to student course activities. Service fees also cover health services (separate from health insurance), emergency and accident coverage as well as basic fees necessary to support curriculum related technology.

Note: Separate course fees may be required for some courses. Students should consult the respective Albert course listing for information.

All fees are payable at the time of registration. The Office of the Bursar is located on the 10th floor of the campus building in room 1051. Online payments and wire transfers are to be paid to NYU Shanghai for the exact amount of the tuition and fees required. In the case of an overpayment, the balance is refunded in the 2nd month after each semester starts by the Office of the Bursar.

A fee will be charged if payment is not made by the term due date indicated on the student's statement.

Cost of Attendance

The preliminary cost of attendance budget represents the estimated annual cost of education for full-time undergraduate students at NYU Shanghai in US dollars for the 2019-2020 academic year. It includes tuition, room and board (which may vary based on a student's room selection), health insurance, personal expenses, books and course materials, and many student life activities. The costs listed below are estimated for the 2019-2020 academic year only. Annual adjustments to the costs and fees at NYU Shanghai may be necessary and should be expected. The yearly tuition and residence costs include only full-time fall and spring enrollment; course overloads incur additional tuition, registration and service fee. Students that take summer session or January term courses will incur additional direct and indirect expenses. Direct expenses will be billed accordingly. Financial assistance may not be available for summer or January term sessions.

Indirect costs—such as estimated board, travel, 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.

NYU Shanghai Estimated Cost of Attendance in US dollars for 2019-2020

Direct Costs: Costs that you will be charged by NYU Shanghai	Cost
Tuition, Registration and Services Fees*	\$53,310*
Health Insurance**	\$3,632**
Room	\$4,109
Estimated Books and Materials	\$1,000

Indirect Costs: Other educational costs incurred	Cost
Board (Meals)	\$2,597
Estimated Personal Expenses	\$1,000
Estimated Travel	\$3,750

Total Cost of Attendance (Estimated)	\$69,398
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*Tuition, Registration and Services Fees, per unit (19 or more units) \$1,563. This charge will be assessed to students who take over 18 units.

**Health insurance charges vary. The estimated maximum is \$3,632 for 2019-2020. Your direct charges may vary.

***International students can use reliable exchange rate information while arranging financials in advance, official USD exchange rate will be published in July, 2019

Special Programs including Study Away

The tuition paid to NYU Shanghai is the cost of tuition for a semester away in NYU's global network (for a standard full time course load). However, the cost of attendance varies between the global academic centers and degree-granting campuses, for other expenses (i.e. room, board, travel) for study in the NYU Study Away programs and in NYU International Exchange Programs. Students may refer to the cost estimator to get an estimate of their expected cost of attendance per semester.

NYU January and Summer Terms

Starting in their freshman year, students are eligible for NYU January term. After completion of the freshman year students are eligible for NYU summer terms. NYU's January and Summer terms allow students more flexibility and scheduling options. NYU Shanghai students have the opportunity to earn course credit or explore a new interest. During this time, students can take advantage of intensive study at NYU Shanghai or one of the global study away sites or other degree-granting campuses. Oftentimes, the fall and spring semesters can be overly hectic for students, considering a full-time course load, student club responsibilities, work, internship commitments, and social obligations. This busy time forces students to focus mainly on their academic progress, which doesn't always allow the freedom to explore a new interest or take advantage of the many cultural resources that originally drew them to Shanghai. Further information is available from the NYU Shanghai Office of Global Affairs. Students should be aware that there are additional tuition fees for January and summer terms outside of the fall and spring semesters. Typically financial aid is not available for the terms.

Deferred Payment Plan (For U.S. students only)

The Deferred Payment Plan allows students to pay 50 percent of their net balance due for the current term on the payment due date and defer the remaining 50 percent until later in the semester. This plan is available to students who meet the following eligibility requirements:

- Matriculated and registered for 6 or more points
- Without a previously unsatisfactory NYU

Shanghai credit record

- Not in arrears (past due) for any NYU Shanghai charge or loan

The plan includes a nonrefundable application fee of \$50, which is to be included with the initial payment on the payment due date.

A separate deferred payment plan application and agreement is required for each semester this plan is used. The Deferred Payment Plan will be available at www.nyu.edu/bursar - Make a Payment starting in July for the fall semester and in December for the spring semester.

For additional information, please visit the website of the Office of the Bursar at <http://shanghai.nyu.edu/academics/tuition/us> or call +86 21 20596666.

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 at shanghai.studentaccounts@nyu.edu or call +86 21 20596666 to clear arrears or to discuss their financial status.

Withdrawal and Refund of Tuition

A student who, for any reason, finds it impossible to complete one or more courses for which he or she has registered should consult with an academic advisor. An official withdrawal must be filed either on Albert (through the first three weeks of the term only) or in writing on a completed Request for Withdrawal form with the Office of the NYU Shanghai Registrar. (Note: An official withdrawal must be filed if a course has been canceled, and, in this case, the student is entitled to a refund of tuition and registration fees paid.) Withdrawal does

not necessarily entitle the student to a refund of tuition paid or a cancellation of tuition still due. A refund of tuition will be made provided such withdrawal is filed within the scheduled refund period for the term. (See below for the schedules.)

Merely ceasing to attend a class does not constitute official withdrawal, nor does notification to the instructor. A stop payment of a check presented for tuition does not constitute withdrawal, nor does it reduce the indebtedness to NYU Shanghai.

The date on which the Request for Withdrawal form is filed, not the last date of attendance in class, is considered the official date of the student's withdrawal. It is this date that serves as the basis for computing any refund granted the student. The processing of refunds takes approximately two weeks.

Undergraduate Refund Schedule

Withdrawing From ALL Courses (Fall and Spring Only)

A refundable credit balance may result on your student account because of financial aid disbursements, over-payments and/or account adjustments. Before you get any refund, please make sure you have valid bank account information that you wish the refunds to go to in Bursar's records. If you are not sure about your account info, please contact us to update or add new accounts.

For details on Refund and Withdraw, please visit :

Chinese Students:

<https://shanghai.nyu.edu/academics/tuition/chinese/refunds-and-withdrawals>

US Students:

<https://www.nyu.edu/students/student-information-and-resources/bills-payments-and-refunds/refunds-and-withdrawals.html>

International Students:

<https://shanghai.nyu.edu/academics/tuition/international/refunds-and-withdrawals>

Note: A student may not withdraw from a class after

the ninth week of the fall or spring semester or in the last two weeks of each six-week summer session.

Exceptions to the published refund schedule may be appealed in writing to the Assistant Provost for Academic Affairs and should be supported by appropriate documentation regarding the circumstances that warrant consideration of an exception. Exceptions are rarely granted. Students who withdraw should review the above "Refunds" page on the Office of the Bursar's website.

U.S. federal regulations require adjustments reducing financial aid if a student withdraws even after the NYU refund period. Financial aid amounts will be adjusted for students who withdraw through the ninth week of the semester and have received any federal grants or loans. This adjustment may result in the student's bill not being fully paid. NYU will bill the student for this difference. The student will be responsible for payment of this bill before returning to NYU and will remain responsible for payment even if he or she does not return to NYU.

For any semester a student receives any aid, that semester will be counted in the satisfactory academic progress standard. This may require the student to make up credits before receiving any further aid. Please review the "satisfactory academic progress" standard so you do not jeopardize future semesters of aid.

Eligibility for Financial Aid

Financial aid may be comprised of university scholarships, federal aid (for US citizens/official permanent residents of the United States), or outside scholarships. NYU Shanghai reviews all students for scholarship eligibility regardless of citizenship. For most undergraduates, eligibility for merit and/or need-based scholarships is determined by a student's prior academic strengths, and upon demonstration of financial need from the results of the submitted financial aid form(s).

NYU Shanghai Scholarship and/or grant renewal: US Citizens and International Students (Non-Chinese Nationals)

All returning undergraduate students who have NYU Shanghai Scholarship/grant to renew will continue to receive for subsequent academic years the amount of scholarship received for your first year (subject to the availability of funds), as long as the following criteria are met:

You are a full-time student (at least 12 credits or more per semester).

You are meeting the [Satisfactory Academic Progress](#) standards.

You have approximately the same amount of financial need that you had in prior years.

US Citizens:

All returning undergraduate students will be reviewed for federal financial aid eligibility with the successful submission of the FAFSA using NYU's school code (002785) for the relevant academic year. Federal financial aid may include Pell Grant and federal Direct Loans. Eligibility is based on financial need, anticipated enrollment, cost of attendance, and the availability of funds. We suggest that all students file by **May 1** in order to ensure that their financial aid package will be ready in advance of the

Bursar bill.

Chinese nationals applying to NYU Shanghai will need to contact the NYU Shanghai Office of Admissions in the Shanghai Office (9:00 a.m.-5:00 p.m. China Standard Time): +86-21-2059-5599 for additional information regarding individual scholarship requirements.

Non-Chinese nationals applying to NYU Shanghai must follow the instructions below if they wish to be considered for financial aid.

The College Scholarship Service (CSS) Profile

The CSS Profile is required of all applicants, regardless of citizenship, who would like to be considered for financial aid, including any scholarships/grants from NYU Shanghai. Note: students with divorced, separated, or unmarried biological parents will also need to have their noncustodial parent submit their own CSS Profile (or the NYU CSS Profile Waiver Request for the Noncustodial Parent with all supporting documentation) by the deadlines specified below to be considered for institutional scholarships/grants. Chinese nationals applying to NYU Shanghai (using the Gaokao to qualify for admission) should not complete the CSS Profile.

- Visit <https://cssprofile.collegeboard.org/to> begin and submit the CSS Profile for both your custodial and noncustodial parent (if applicable).
- Students needing a CSS Profile Waiver Request for the Noncustodial Parent should contact shanghai.financial.support@nyu.edu.
- The New York University CSS school code number is 2785.
- The upcoming aid year's CSS Profile becomes available as of October 1.

Freshman Applicants CSS Profile Deadlines:

	Early Decision I	Early Decision II	Regular Decision
CSS Profile	November 15	January 15	February 20
CSS Profile for the noncustodial parent (if applicable)	November 20	January 20	February 20
Estimated Award Notification	mid-December	mid-February	April

The Free Application for Federal Student Aid (FAFSA)

NYU Shanghai is approved by the U.S. Department of Education to provide federal financial aid to eligible students who are U.S. citizens or official permanent residents of the U.S. Therefore, all U.S. citizens or official permanent resident applicants who would like to be considered for financial aid at NYU must submit the FAFSA in addition to the CSS Profile form.

- Visit <http://fafsa.gov> to begin and submit the FAFSA.
- You must list “New York University” as a recipient and include our federal school code number (002785) when completing your FAFSA.
- The upcoming aid year’s FAFSA becomes available as of October 1.

Freshman Applicants FAFSA Deadline:

	Early DeciSion I	Early Decision II	Regular Decision
FAFSA	November 15 *	January 15 *	February 15
Award Notification	mid-December *	mid-February *	April

* EARLY DECISION RECOMMENDED FILING DATE FOR FAFSA:

The FAFSA (NYU school code 002785) is required for federal financial aid and NYU scholarship consideration for all U.S. Citizens, Permanent Residents, and eligible non-citizens applying to our New York City campus and/or to NYU Shanghai. Early Decision admitted students who file and complete the FAFSA by the CSS Profile deadline will receive a financial aid package that includes federal financial aid eligibility at the time of admission. Early Decision admitted students who file and complete the FAFSA after the CSS Profile deadline will have their federal aid eligibility awarded upon receipt of the FAFSA. Use of the Data Retrieval Tool is preferred whenever possible.

Student Responsibilities

- US Citizens: You must submit a FAFSA application each year to renew the federal aid portion of the financial aid awarded at NYU.
- You should refer to <https://www.nyu.edu/admissions/financial-aid-and-scholarships/new-undergrad.html> for all financial aid application deadlines for freshman applicants. It is important to adhere to all applicable deadlines for aid consideration.
- Use NYU Albert at albert.nyu.edu to view and accept your financial aid awards.
- Please do not submit any additional documentation unless otherwise requested by the Office of Financial Support.
- It is important that you understand the conditions of the awards you accept. Contact the Office of Financial Support at shanghai.financial.support@nyu.edu if you have any questions.
- You must adhere to satisfactory academic progress standards to remain eligible for your NYU Shanghai scholarship and/or grant. The Office of Financial Support will send reminders, but it is the student’s responsibility to know and heed the requirements.
- You must notify the Office of Financial Support immediately if you receive an award or financial aid from any additional outside source. A change in your resources may affect the type of aid you may be eligible for.
- You must respond immediately to all requests from the Office of Financial Support. Failure to comply may result in the cancellation of your aid.
- Consult with the Office of Financial Support immediately if you reduce your academic enrollment to fewer than 12 credits per semester or if you are enrolled full-time (at least 12 credits or more) but intend to begin part-time (less than 12 credits per semester) to discuss how those changes will impact your financial aid. Also contact the Office of Financial Support if there is a change in your housing status. A change in enrollment or housing status may affect the financial aid you receive.
- Be sure to notify the NYU University Office of the Registrar if you have a change of address by updating your contact information via NYU Albert at albert.nyu.edu. We use the records from the Office of the Registrar to administer financial aid.

*Registration,
Academic Advisement,
and Counseling*

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 Room 1049 for assistance or to view its website at shanghai.nyu.edu/academics/registration. Office hours are weekdays from 9 a.m. -11:30 a.m. and 1:00 p.m. to 5 p.m.

Students can complete their initial registration through Albert, NYU's online registration system, at home.nyu.edu. Students can also use Albert to make later adjustments to their schedule.

New Students

Newly admitted students receive detailed registration information a few weeks prior to orientation. New students meet with an academic advisor during orientation to discuss their class schedule and other academic questions.

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: <http://www.nyu.edu/students/health-and-wellness/student-health-center/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 and support to students looking to reach their highest academic potential. Students can schedule a meeting, or drop by the ARC, for the following:

- Individual and small-group tutoring in over 30 STEM, Business, Humanities, and Economics courses
- Individual writing consultations at any stage of the writing process
- Academic coaching in areas such as critical reading & note-taking strategies, and setting goals and managing multiple priorities
- Workshops on writing, creativity, applications and software

Students are also welcome to study on their own in the comfortable, supportive atmosphere of the Academic Resource Center.

Career Development Center

The NYU Shanghai Career Development Center (CDC) aims to provide comprehensive career guidance to the entire student body. The CDC collaborates with employers, alumni, faculty, other departments, and external organizations to provide a range of resources and opportunities for students to achieve personal and professional success.

Students may sign up for individualized appointments with a career coach throughout the year. 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 pre-professional and graduate school options;

Besides coaching appointments, students may find many other ways to gain professional skills and build connections to expand their network. The CDC offers robust career-related programming during the academic year including career fairs, career speakers, industry panels, skills workshops, alumni mentor matching, and much more.

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 Engagement

NYU Shanghai offers for-credit courses that have community-engaged learning components, such as academic service learning courses. We encourage students to seek out such opportunities during their college career to intellectually explore and gain firsthand experience with social issues in the city of Shanghai and in greater China.

Preprofessional Programs

Pre-Medical and Health Studies Program

It is important to understand that health-related pre-professional 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 pre-medical and health curriculum.

NYU Shanghai, like many American colleges and universities, does not offer a pre-medical, pre-dental, or pre-health major. 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 M.D./Ph.D. programs.

The following NYU courses are equivalent to the basic set 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
- FoS Physics I Laboratory & Physics II Lab
- Foundations of Chemistry I & II
- FoS Chemistry Laboratory
- Foundations of Biology I & II
- FoS Biology Laboratory
- Organic Chemistry I & II
- Organic Chemistry I & II Lab

In addition, many schools expect students to have taken the following courses:

- Calculus
- Statistics
- Introduction to Psychology
- A sociology course that surveys individual and social patterns of behavior and determinants of health
- 2 semesters of upper level Expository Writing courses are recommended. These courses cannot include Creative Writing and need to focus on writing or
- interpreting advanced texts.
- 1 semester of Biochemistry

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 Prelaw 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.

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. 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 prevent him or her 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 opened 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 addresses the issues impacting students from a physical, emotional and health knowledge perspective and provides activities and resources that empower the students to achieve their academic potential.

Academic Resource Center Tong Jin (*tong.jin@nyu.edu*) with any questions about registering.

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 Henry and Lucy Moses Center for Students with Disabilities (CSD) in New York determines qualified disability status and assists students in obtaining appropriate accommodations and services. CSD 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 supports.

Any student who needs a reasonable accommodation based on a qualified disability is required to register with the CSD for assistance. They should contact the Interim Assistant Director of the

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 (B.A.)

- Global China Studies
- Economics
- Humanities
- Social Science

Bachelor of Science (B.S.)

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

The general degree requirements are the same for the B.A. and the B.S.

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. At least one-half of the courses as well as one-half of the credits used to complete the major must be taken in the disciplinary area. A student may not register for courses in the major outside of NYU. The student must be approved as a major and must review his or her program with an academic advisor each term.

Course offerings are subject to the availability of faculty. Therefore, 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.

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.

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.

Prerequisite Courses for Declaring a Major

Major	Final grade of C or higher in:
Biology	Foundations of Biology I
Business and Finance	Statistics for Business and Economics
Business and Marketing	Statistics for Business and Economics
Chemistry	Foundations of Chemistry II
Computer Science	Introduction to Computer Programming OR Introduction to Computer Science
Computer Systems Engineering	Introduction to Computer Programming OR Introduction to Computer Science
Data Science	Introduction to Computer Programming OR Introduction to Computer Science + Calculus
Economics	Microeconomics
Electrical and Systems Engineering	Introduction to Computer Programming OR Introduction to Computer Science
Global China Studies	Any required Global China Studies course
Honors Mathematics	Analysis I + Honors Linear Algebra II + Cumulative GPA 3.65 or higher in all classes and in Math classes
Humanities	Global Perspective on Society
Interactive Media Arts	Interaction Lab or Communications Lab
Interactive Media and Business	Application Lab OR Interaction Lab OR Communica- tions Lab OR Principles of Financial Accounting OR Economics of Global Business
Mathematics	Multivariable Calculus
Neural Science	Foundations of Biology I
Physics	Foundations of Physics II
Social Science	Global Perspective on Society

Double Major

Students may attempt a double (second) major. The same requirements, including the maintenance of a minimum grade point average of 2.0 in the major, apply to the second major as to the first. 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. Requirements for completing a major as a double major are the same as detailed for the major requirements.

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.

{ Part III }

Standards and Policies

Everything you need to know about:

- Academic Policies
- Placement Examinations, Degree Progress, and Transcripts
- Academic Standards and Discipline
- University Policies and Campus Safety
- Honors and Awards

Academic Policies

- Courses
- Credits
- Examinations
- Grades
- Leaves

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. Students who wish to attend part-time should obtain permission from the Office of the Assistant Provost for Academic Affairs prior to the start of the semester. Such status will be granted only when there is good and sufficient reason for part-time study. 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 freshman 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.

Availability of Courses

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. Excess demand will not lead to creation of additional space in major elective courses or for students seeking to take a required major course earlier than the semester it is listed in the recommended course sequence.

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.

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 or file a Change Course Enrollment form available on the Registrar's Office website (shanghai.nyu.edu/academics/regISTRATION).

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.

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 ninth week of the term will be recorded with a grade of W. After the ninth week, no one may withdraw from a course except in cases of full semester withdrawal as recommended by Health and Wellness and accompanied by medical 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 form, and get the approval of the Assistant 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."

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. 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 (nondegree) 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 are seriously ill and/or will miss more than a week of classes due to medical reasons, should contact their academic advisor and the Office of Health and Wellness for assistance in excusing their absences from class.

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 Assistant 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.

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. 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, the grades from both times the student took the course will be recorded on the transcript but only the credits from the second time the course is taken will be counted. Furthermore, the two grades (from the first and second times) will be averaged in the before calculated in the cumulative grade point average.

For Chinese national students, a repeated course

will take space in their free extra 8-credits beyond 128 total credits.

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 the Office of Academic Affairs.

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.

Credits from any courses taken in NYU's School of Professional Studies 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.

Credit for Transfer Students

NYU Shanghai does not presently accept transfer applicants.

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. Exceptions are granted only rarely and only for good academic reasons.

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.

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 pre-arranged 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.

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, 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 final examinations are missed because of illness, a doctor's note must be presented to the Health & Wellness Center, which can verify the medical situation and inform the instructor. After confirmation by Health & Wellness, the student must submit a request to the instructor to receive a grade of Incomplete. It is up to the instructor and Academic Affairs to decide if a request for a grade of Incomplete will be granted. The time and place of any makeup examinations are set by the instructor or the major leader.

Incomplete grades received because of a missed final examination must be replaced with a letter grade within the semester following the one in which the Incomplete was received. In the case of students who are out of attendance, such grades must be replaced within one year after the end of the course concerned. An Incomplete is a temporary grade; if it is not replaced within

the time limit by a grade submitted by the course instructor it becomes an F or the default grade indicated by the instructor, and is computed in the grade point average. (Regarding the removal of Incompletes received for missed work other than final examinations, see next page 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:

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

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 I (Incomplete) is a temporary grade that indicates that the student has, for good reason, completed all but a single requirement or a small amount of the course work, and that there is the possibility that the student will eventually pass the course when all of the requirements have been completed. A student must ask the instructor for a grade of I, present documented evidence of illness or the equivalent, clarify the remaining course requirements with the instructor, and receive approval from the Assistant Dean for Academic Affairs.

The Incomplete grade is not awarded automatically. It is not used when there is no possibility that the student will eventually pass the course. If the course work is not completed and a grade submitted by the course instructor before the statutory time for making up incompletes has elapsed, the temporary grade of I becomes an F or the default grade indicated by the instructor and is computed in the student's grade point average.

Incompletes

All work missed in the fall term or in a January term session must be made up by the end of the following spring term. All work missed in the spring term or in a summer session must be made up by the end of the following fall term. Students who are on a leave of absence in the semester following the one in which the course was taken have one year to complete the work. Students should contact their advisor for an Extension of Incomplete Form, which must be approved by the instructor. Extensions of these time limits are rarely granted.

NYU Shanghai follows the Office of Global Programs policy regarding incomplete grades and study away admission. Incomplete (I) grades on students'

transcript must be resolved before an admissions decision for study away can be made.

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 Assistant 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 completion of the 9th week of the term (fourth week of a six-week summer session); 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 and English for Academic Purposes courses cannot be taken P/F. Courses in other languages 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.

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 (<http://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. Students on leave may only visit campus for scheduled appointments with NYU Shanghai faculty or staff. 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.

*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 coming 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 placement 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 through Intermediate Chinese II (CHIN SHU 202) or Intermediate for Advanced Beginners (CHIN-SHU 211). 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 80 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 a certain level (including to fulfill the language requirement), the student must take an in-person place-out exam, one level at a time. The place-out exam must be taken and completed prior to the student's final semester. Students may be asked to take an in-person entry placement exam for Advanced Chinese I course after returning from their study away semester(s).

Information on placement testing can be obtained from the Office of Academic Advising. Students may contact shanghai.chinese.placement@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 could be found at the website: Learning Chinese <https://guides.nyu.edu/learnChinese>.

Placement Process for Writing as Inquiry

Entering students who did not speak English in the home or attend K-12 schools where English was the primary language of instruction will be evaluated for placement in two different first-year writing courses. Student standardized test scores, Candidate Weekend scores, and a writing sample may be considered as part of the evaluation. In some cases, adjustments in placement may be made during the first weeks of class. Information on placement testing will be communicated to matriculating students by their advisors.

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.

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.

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.

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.
 - 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.

Academic Standards and Discipline

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 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 cumulative or semester grade point average falls below 2.0 or if it fails to show steady and substantial progress toward the degree. Steady and substantial progress toward the degree entails the completion, 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 (a) achieve a grade point average of at least 2.0 during the probationary term, (b) not receive any grade below a C or any grade of I, and (c) not withdraw from any course without securing the permission of the NYU Shanghai Academic Standards Committee prior to the withdrawal. Students on academic probation are also required to have an additional probation interview with their advisor to receive registration clearance for the next semester. 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.

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 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 Assistant 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.

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)
3. Any behavior that violates the academic policies set forth by NYU Shanghai.
 - 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.

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
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 Assistant 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 Assistant Provost for Academic Affairs' office 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 Assistant 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 Assistant 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 Assistant Provost for Academic Affairs.

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 Assistant Provost for Academic Affairs for further action.

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 <https://shanghai.nyu.edu/campuslife/community-standards/>.

University Policies

- Privacy of Student Records
- Computing and Information Resources Code of Ethics
- Emergency Temporary Closing of the University
- Freedom of Expression
- Human Subjects in Research at NYU Shanghai

A. 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 her or his 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.

B. 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.

C. 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.

D. 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.

E. 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 at <https://research.shanghai.nyu.edu/resources/human-subjects>.

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 Assistant 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 Assistant 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.

Senior Award in Arts

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

Senior Award in Sciences

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

Senior 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.

Senior Award in Engineering and Computer Science

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

{Part IV}

Academic Overview

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.

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.

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.

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 orientation week.

Study Away

Students are required to spend at least 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:

For Classes of 2022 and Later:

Students may choose to study away for up to two

semesters within the 4-semester window of second semester sophomore year through first semester senior year, but study away during spring of sophomore year may not be NY or AD.

Students are required to have 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. NYU's global network requires students to have a 3.00 cumulative grade point average to study away. Students with a GPA below 3.00 should discuss their options with their advisor.

Courses that students need for their major are offered at the NYU global academic centers and degree-granting campuses allowing students to continue to fulfill many of 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. Through the application process, students agree to the Study Away Standard.

Majors

Majors and Minors

NYU Shanghai offers its students an array of majors and minors. Our majors and minors showcase NYU's world-class faculty, major research strengths, and international distinction. These include:

NYU Shanghai majors are organized into three divisions each overseen by a Dean.

Arts & Sciences

Dean Maria Montoya

- Biology
- Chemistry
- Economics
- Global China Studies
- Humanities
- Interactive Media Arts
- Interactive Media and Business
- Mathematics
- Honors Mathematics
- Neural Science
- Physics
- Social Science

Business

Dean Yuxin Chen

- Business and Finance
- Business and Marketing

Computer Science and Engineering

Dean Keith Ross

- Computer Science
- Computer Systems Engineering
- Electrical and Systems Engineering
- Data Science

Self-Designed Honors Major

Minors

Shanghai Minors

- Biology
 - Molecular and Cell Biology
 - Genomics and Bioinformatics
- Business
- Chemistry
- Chinese
- Computer Science
- Computer Systems Engineering
- Creative Writing
- Data Science
- Economics
- Electrical and Systems Engineering

- Global China Studies
- Humanities
- History
- Literature
- Philosophy
- Interactive Media Arts
- Interactive Media and Business
- Mathematics
- Neural Science
- Physics
- Social Science

Global Network Minors

- Art History Studies
- Art Studies
- Australian Culture and Society
- British Culture and Society
- Central European Culture and Society
- Cultural Studies
- Entrepreneurship and Innovation
- European Culture and Society
- Fashion Studies
- French Culture and Society
- German Culture and Society
- Global Cities Studies
- Global Public Health Studies
- Globalization Studies
- Italian Culture and Society
- Journalism Studies
- Latin American Culture and Society
- Middle Eastern Culture and Society
- Pan African Culture and Society
- Psychological Studies
- Photographic Studies
- Political Studies
- Sociological Studies
- Spanish Culture and Society
- Sustainability Studies
- West African Culture and Society

NYU cross-school minors

For the list of cross-school minors, see <http://www.nyu.edu/students/undergraduates/academic-services/undergraduate-advisement/unique-academic-opportunities/cross-school-minors/cross-school-minors-by-school.html>

{ Part V }

Core Curriculum Overview

There are seven components to the NYU Shanghai core curriculum: Social Foundations, Cultural Foundations, Writing, Mathematics, Science, Algorithmic Thinking, and Language.

Courses in the Social Foundations and Cultural Foundations sequences 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. Social and Cultural

Social and Cultural Foundations 1 & 2

Foundations courses will teach students to ask critical questions, find unstated assumptions, assess arguments, and offer creative interpretations of the great works and ideas of the past, especially as they live on in the present.

Required courses: Social Foundations and Cultural Foundations each have two components: a) a one-semester survey course, and b) a disciplinary course on China.

Social Foundations: In the one-semester survey course *Global Perspectives on Society*, students will engage in the comparative study of primary works of social thought from across the globe. The course addresses ways that writers in different times and cultures have sought to situate humans within the universe, and to promote ideal standards for human behavior. Each week, students will be expected to engage one or more central texts by an important thinker on the topic. The expectation is that *Global Perspectives on Society* will be taken in the first semester.

Students will complete the Social Foundations requirement with a disciplinary course of their choice from the category *Social Science Perspectives on China (SSPC)*. This course can be taken at any point in a student's undergraduate career. *Social Science Perspectives on China* courses explore Chinese society in depth and in comparative perspective. Students develop a global perspective through a Chinese lens by studying interactions among individuals, families, communities, and nations. Courses in this category develop students' understanding of historical and contemporary China and develop their ability to engage in qualitative and quantitative analyses of social, economic, and political institutions in China and abroad. This category may include courses in Chinese anthropology, economics, environmental studies, law, media studies, public health, politics, psychology, and sociology.

Cultural Foundations: *Perspectives on the Humanities* is a one-semester core curriculum requirement. In the fall of their second year at NYU Shanghai, students choose from a variety of *Perspectives on the Humanities* topics. These content-based writing seminars introduce students to the questions asked and methods used by a variety of disciplines in the humanities, including philosophy, history, and literature. *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 Cultural Foundations requirement, this course satisfies one of two writing requirements (see "Writing"). The first-year writing course is a prerequisite for *Perspectives on the Humanities*.

Students will complete the Cultural Foundations requirement with a disciplinary course of their choice from the category *Humanistic Perspectives on China*. As with the courses in "Social Science Perspectives on China," students may take their *Humanistic Perspectives on China* course at any point in their undergraduate career. *Humanistic Perspectives on China* courses provide in-depth understanding of Chinese history, philosophy, culture, art, literature, etc. These courses explain the complex origins and the transformations of China through different time periods, emphasize the importance of examining China from a global perspective, and engage in the analysis of multiple textual and visual sources. These courses help students develop skills to critically analyze the internal developments as well as evaluate the global relevance of China historically and in contemporary times. This category may include courses in Chinese history, philosophy, art, architecture, drama, film, literature, and music.

3 Writing

NYU Shanghai writing courses serve as an introduction to academic writing and inquiry at the university level. Students learn how to closely read academic, argumentative, and narrative texts; how to provide an interpretation supported by evidence; how to build logical arguments and develop research questions; and how to adapt their writing to different genres and audiences. In these courses, students come to see writing as a process, one that sharpens their thinking and allows them to pursue the questions that feel most urgent to them. The

habits, dispositions, and skills taught in these classes may be transferred to communication in a variety of channels--academic, civic, business, personal, and creative. The capacities for critical analysis and nuanced self-expression developed in Writing Program classes will prove useful whatever a student's future endeavors.

Required courses: Students must complete two one-semester writing courses. Students take Writing as Inquiry, the first-year writing workshop, the spring of their first year. Students are placed in either Writing I or Writing II; in Writing I, students spend additional time focused on areas of rhetoric, grammar, and style that are relevant to second language learners. Students must complete Writing as Inquiry (receiving a C or higher) before advancing to Perspectives on the Humanities, which is offered in the fall of the sophomore year (Perspectives on the Humanities also satisfies one Cultural Foundations requirements; see "Social and Cultural Foundations").

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.

Mathematics 4

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.

- AP Calculus AB or BC: Score of 4 or higher
- IB Mathematics: Score of 6 or higher
- A Level Mathematics: Score of B or higher
- NYU Shanghai Placement Into Calculus

5 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.

Students are required to take one course from the category Experimental Discovery in the Natural World, which is composed of laboratory-based courses. Students are also required to take one course from the category Science, Technology, and Society, which is composed of non-laboratory-based courses that explore the impact of scientific thinking and innovations on our lives.*

* Students who are pursuing degrees in science disciplines—or who are taking the pre-health curriculum—will be required to take a rigorous, three-semester sequence of courses covering the fundamentals of basic science. Emphasis is placed on science as a process, from hypothesis development to testing and experimentation, on data collection, and on drawing conclusions. All of the courses in this sequence have a project-based laboratory component. In its totality, this sequence is the equivalent of full-year introductory courses in physics, chemistry, and biology. Biology, Neural Science, and Chemistry majors are not required to take Foundations of Physics III Honors and may substitute General Physics I & II for the Foundations of Physics I & II Honors courses. Physics majors are not required to take Foundations of Biology II. For more details, see the degree requirements of each major.

The relevant exam scores which may be used to wholly or partially fulfill the Core Curriculum Science requirement are listed below. No corresponding credit is awarded and otherwise specified below test scores cannot be used to fulfill prerequisite for upper-level courses in that area.

**Core Curriculum
Science Category**

**Can be fulfilled by these exams (though no
credit is given)**

Science Technology and
Society (STS)

- AP Environmental Science: Score of 4 or higher

Experimental
Discovery (ED)

- AP Psychology: Score of 4 or higher fulfills core; score of 5 fulfills core and course equivalency for PSYCH-SHU 101
- IB Psychology HL (Higher Level): Score of 6 or higher fulfills core; score of 7 fulfills core and course equivalency for PSYCH-SHU 101
- A Level Psychology: Score of B or higher fulfills core; score of A fulfills core and course equivalency for PSYCH-SHU 101
- AP Physics C- Mech OR AP Physics C – E&M: Score of 4 or higher

Satisfies two categories and
completes the entire Science Core
Requirement:

Experimental
Discovery (ED) AND
Science,
Technology
and Society (STS)

- AP Physics 1 & 2, Chemistry, OR Biology: Score of 4 or higher
- AP Physics C- Mech and AP Physics C – E&M: Score of 4 or higher
- IB Biology HL, Chemistry HL, OR Physics HL: Score of 6 or higher
- A Level Biology, Chemistry, OR Physics: Score of B or higher

Algorithmic
Thinking (AT)

- AP Computer Science A: Score of 4 or higher
- IB Computer Science HL: Score of 6 or higher
- NYU Shanghai Placement into Introduction to Computer Science

6

Algorithmic Thinking

Algorithmic Thinking courses cover the thought processes involved in formulating a problem, designing a solution for that problem within given specifications, and expressing the solution in an ordered series of predefined instructions. Students acquire and hone skills that allow them to organize and analyze data logically, to represent problems in terms of abstractions and patterns, to break these

problems down into smaller parts, and to generalize problem-solving processes to wide scopes of application. All of these courses have a hands-on programming component.

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

- AP Computer Science A: Score of 4 or higher
- IB Computer Science: Score of 6 or higher
- NYU Shanghai Placement Into Introduction to Computer Science

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.

Language 7

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. Engineering and Foundations of Science students are unable to take 4-credit courses in Chinese in their first year because of the course requirements of their major. Therefore, they will be able to complete the Elementary and Intermediate Chinese course requirements by completing two-credit Chinese classes throughout their fall and spring semesters. These two-credit Chinese classes are not open to other major or study-away students. The Chinese language program offers multiple modalities of instruction, including formal intensive coursework during Summer Sessions, online 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 graduate, students must successfully complete the Intermediate Chinese II with a grade of C or better or demonstrate equivalent competency through a placement exam.

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. EAP 100 must be completed in the first year. 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 courses sequences in the sciences will be eligible to take two two-credit EAP 100 seminars in the first year and to complete EAP 101 in the following year. Academic advisors will notify students if they are eligible for the two-credit seminar. Students must successfully complete EAP 101 before the end of their second year and before they study away. 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.

{Part VI}

Overview of Majors

Arts and Sciences

BIOLOGY

CHEMISTRY

ECONOMICS

GLOBAL CHINA STUDIES

HUMANITIES

INTERACTIVE MEDIA ARTS

INTERACTIVE MEDIA + BUSINESS

MATHEMATICS

HONORS MATHEMATICS

NEURAL SCIENCE

PHYSICS

SOCIAL SCIENCE

BIOLOGY

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 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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. Students may not double-major in Biology and Neural Science.

Foundational Courses

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory **OR**
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 11 General Physics I **OR**
- PHYS-SHU 91 Foundations of Physics I Honors
- PHYS-SHU 12 General Physics II **OR**
- PHYS-SHU 93 Foundations of Physics II Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Lab

Note:

- 1) Biology majors are encouraged to complete the above classes in their first 2 years.
- 2) Biology majors are not required to take Foundations of Physics III Honors and may substitute General Physics I & II for Foundations of Physics I & II Honors courses.
- 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. 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. Students with a strong high-school background in physics and maths are also highly recommended to take Foundations of Physics I-IV Honors.

Required Courses

- NEUR-SHU 100 Math Tools for Life Sciences or Biostatistics
- BIOL-SHU 250 Organismal Systems
- CHEM-SHU 225 Organic Chemistry I
- CHEM-SHU 225L Organic Chemistry I Lab
- BIOL-SHU 998 Integrated Science Capstone (This course must be taken in the last semester before graduation)

Biology Electives - Choose Five

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in the NYU's global network with prior approval.

Students are strongly encouraged (but not required) to take Organic Chemistry II as a general elective.

Sample Courses:

- BIOL-SHU 30 Genetics
- BIOL-SHU 31 Genetics Laboratory
- BIOL-SHU 271 Cell Biology: Body's Battle with Cancer
- BIOL-SHU 261 Genomics and Bioinformatics
- BIOL-SHU 263 Developmental Biology
- BIOL-SHU 314 Advanced Cell Biology Lab

- BIOL-SHU 997 Independent Research (*Note that one 4-credit Independent Study is allowed to count towards the Biology major elective*)
- CHEM-SHU 881 Biochemistry I
- CHEM-SHU 882 Biochemistry II
- MATH-SHU 160 Networks and Dynamics
- NEUR-SHU 201 Introduction to Neuroscience

Note: Pre-health students may wish to take Introduction to Psychology or another relevant social sciences course, as required or recommended by some medical schools. Students interested in pursuing careers in the health sciences should meet with advising staff early on to ensure adequate course planning.

Biology Minor

A. Molecular and Cell Biology Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- BIOL-SHU 30 Genetics **OR**
- BIOL-SHU 263 Developmental Biology
- BIOL-UA 36 At the Bench: Applied Molecular Biology DNA Techniques **OR**
- BIOL-UA 37 At the Bench: Applied Cell Biology **OR**
One approved class to count towards this minor

B. Genomics and Bioinformatics Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- BIOL-SHU 261 Genomics and Bioinformatics
- BIOL-SHU 267 Microbiology and Microbial Genomics **OR**
- BIOL-GA 1128 Systems Biology **OR**
- BIOL-UA 58 Evolution

BIOLOGY

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Biology major. It assumes a student begins taking Biology major courses in the first semester of their first year. Sample Schedule 2 offers an alternate plan that involves beginning to pursue a Biology major in the spring semester of the first year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society

Core Class (Calculus)

8 credits:
General Physics I/Foundations of Physics I Honors, Foundations of Chemistry I, and FoS Physics Laboratory

2 credits: English or Chinese

Spring Semester

Writing as Inquiry

Core Class

8 credits:
Foundations of Biology I, Foundations of Chemistry II, and Chemistry II Lab

2 credits: English or Chinese

Year 2

Fall Semester

Perspectives on the Humanities

5 credits:
Organic Chemistry I + Organic Chemistry I Lab

5 credits: Foundations of Biology II and FoS Biology Laboratory

Chinese, or General Elective

Spring Semester

5 credits: General Physics II/ Foundations of Physics II Honors, and Physics II Lab

Organismal Systems

Math Tools for Life Sciences

Chinese, English, or General Elective (Organic Chemistry II for pre-med students)

Year 3

Fall Semester

Biology Elective

Biology Elective

Chinese, or General Elective

General Elective

Spring Semester

Biology Elective

General Elective

General Elective

General Elective

Year 4

Fall Semester

Biology Elective

General Elective

General Elective

General Elective

Spring Semester

Integrated Science Capstone

Biology Elective

General Elective

General Elective

BIOLOGY

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	3 credits: Foundations of Biology I	English, Chinese, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	10 credits: Foundations of Biology II, Foundations of Chemistry I, FoS Biology Laboratory, and FoS Chemistry Laboratory	Chinese, or General Elective	No Class
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Spring Semester

Math Tools for Life Sciences	Organismal Systems	3 credits: Foundations of Chemistry II	Biology Elective, Chinese, or General Elective
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Year 3

Fall Semester

5 credits: Organic Chemistry I + Organic Chemistry I Lab	Biology Elective	Biology Elective	General Elective
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Spring Semester

Biology Elective	Biology Elective	General Elective (Could be Organic Chemistry II for pre-med students)	General Elective
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Year 4

Fall Semester

5 credits: General Physics I/Foundations of Physics I Honors, and FoS Physics Laboratory	General Elective	General Elective	General Elective
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Spring Semester

5 credits: General Physics II/Foundations of Physics II Honors, and Physics II Lab	Integrated Science Capstone	General Elective	General Elective
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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 last semester in an Integrate Science Capstone course. Advanced students 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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval.

GPA minimum requirement

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.

Foundational Courses

- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 11 General Physics I **OR**
- PHYS-SHU 91 Foundations of Physics I Honors
- PHYS-SHU 12 General Physics II **OR**
- PHYS-SHU 93 Foundations of Physics II Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Lab

Note:

- 1) Chemistry majors are strongly encouraged to complete the above classes in their first 2 years.
- 2) Chemistry majors are not required to take Foundations of Physics III Honors and may substitute Foundations of Physics I & II Honors for General Physics I & II.
- 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. 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 recommended to take Foundations of Physics III Honors and Foundations of Physics IV Honors. Students with a strong high-school background in physics and mathematics are also recommended to take Foundations of Physics I- IV Honors.

Required Courses

- CHEM-SHU 225 Organic Chemistry I +Organic Chemistry I Lab
- CHEM-SHU 226 Organic Chemistry II + Organic Chemistry II Lab
- CHEM-SHU 651 Physical Chemistry: Quantum Mechanics and Spectroscopy
- CHEM-SHU 652 Physical Chemistry: Thermodynamics and Kinetics
- CHEM-SHU 661 Physical Chemistry Laboratory
- MATH-SHU 151 Multivariable Calculus
- CHEM-SHU 998 Integrated Science Capstone

Chemistry Electives - Choose Three

- CHEM-SHU 285 Experimental Biochemistry
- CHEM-SHU 310 Biophysical Chemistry
- CHEM-SHU 312 Analytical Chemistry
- CHEM-SHU 711 Inorganic Chemistry
- CHEM-SHU 752 Computational Chemistry

- CHEM-SHU 881 Biochemistry I
- CHEM-SHU 882 Biochemistry II
- CHEM-SHU 997 Independent Study

Note:

- 1) The Integrated Science Capstone must be taken in the last semester before graduation.
- 2) Students interested in pursuing graduate study in Chemistry are strongly encouraged to take Inorganic Chemistry.
- 3) 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.

General Electives

Students may take any courses in NYU's global network to satisfy the general elective requirements, but are strongly encouraged to take the following mathematics and computer science courses.

Recommended Mathematics General Electives:

- MATH-SHU 235 Probability and Statistics
- MATH-SHU 265 Linear Algebra and Differential Equations

Recommended Computer Science General Elective:

- CSCI-SHU 11 Introduction to Computer Programming
- CSCI-SHU 101 Introduction to Computer Science

Chemistry Minor

- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory
- CHEM-SHU 128 Chemistry II Lab
- CHEM-SHU 225 Organic Chemistry I + Organic Chemistry I Lab
- CHEM-SHU 226 Organic Chemistry II + Organic Chemistry II Lab

CHEMISTRY

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a chemistry major. It assumes a student begins taking chemistry courses in the first semester of their first year. Sample Schedule 2 offers an alternate plan that pursues a chemistry major beginning in the fall semester of the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society I

Core Class (Calculus)

8 credits: Foundations of Chemistry I, FoS Chemistry Laboratory, and General Physics I/Foundations of Physics I Honors

2 credits: English or Chinese

Spring Semester

Writing as Inquiry

Multivariable Calculus

8 credits: Foundations of Chemistry II, Chemistry II Lab, General Physics II/Foundations of Physics II Honors

2 credits: English or Chinese

Year 2

Fall Semester

Perspectives on the Humanities

5 credits: Organic Chemistry I + Lab

2 credits: FoS Physics I Laboratory

Core, Chinese or General Elective

Spring Semester

Core Class

5 credits: Organic Chemistry II + Lab

2 credits: Physics II Lab

Chinese, English or General Elective

Year 3

Fall Semester

Physical Chemistry: Quantum Mechanics and Spectroscopy

Chemistry Elective

Chinese or General Elective

General Elective

Spring Semester

Physical Chemistry Laboratory

Physical Chemistry: Thermodynamics and Kinetics

Chemistry Elective, e.g. Inorganic Chemistry

Chinese or General Elective

Year 4

Fall Semester

Chemistry Elective

General Elective

General Elective

General Elective

Spring Semester

Integrated Science Capstone

General Elective

General Elective

General Elective

CHEMISTRY

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core or General Elective	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class (Calculus)	Core or General Elective	English, Chinese, General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	10 credits: Foundations of Chemistry I, FoS Chemistry Laboratory, General Physics I/Foundations of Physics I Honors, and FoS Physics Laboratory	No Class	English, Chinese, General Elective
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Spring Semester

Multivariable Calculus	10 credits: Foundations of Chemistry II, Chemistry II Lab, General Physics II/Foundations of Physics II Honors, and Physics II Lab	No Class	English, Chinese, General Elective
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Year 3

Fall Semester

5 credits: Organic Chemistry I + Lab	Physical Chemistry: Quantum Mechanics and Spectroscopy	Chemistry Elective	Chinese or General Elective
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Spring Semester

5 credits: Organic Chemistry II + Lab	Physical Chemistry: Thermodynamics and Kinetics	Physical Chemistry Laboratory	Chinese or General Elective
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Year 4

Fall Semester

Chemistry Elective	Chemistry Elective	General Elective	General Elective
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Spring Semester

Integrated Science Capstone	General Elective	General Elective	General Elective
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ECONOMICS

The best way to understand the world you live in is arguably to understand the economics that drive it. The world is constantly and increasingly confronted with public policy 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 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.
- Effective economic analysis increasingly involves both conducting and effectively communicating the results from quantitative analyses of data using econometric methods.

Building on these principles, the Economics major is designed to foster rigorous analytical abilities both in neoclassical and behavioral economics, critical writing and communication skills, and the capacity to interpret and use statistical data—all in the service of developing sound economic reasoning and problem-solving skills. These transferable strengths are of value in a broad array of academic and professional paths, from economics, business, or law, to public service or graduate studies.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a 4-credit required course but note that a 2-credit course with a similar title or content will not by itself meet the requirement of the named required course.

Economics major students must either take Calculus (MATH-SHU 131), place out of Calculus, or take Honors Calculus, in order to satisfy the Mathematics requirement in the core curriculum.

Required Courses

- ECON-SHU 1 Principles of Macroeconomics *OR*
- ECON-SHU 251 Economics of Global Business
- ECON-SHU 3 Microeconomics *OR*
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 10 Intermediate Microeconomics
- ECON-SHU 202 Intermediate Macroeconomics
- ECON-SHU 301 Econometrics
- MATH-SHU 235 Probability and Statistics *OR*
- BUSF-SHU 101 Statistics for Business and Economics

Economics Electives - 24 Credits, at least 8 credits must be from "Advanced Economics Electives" and at least one course must be from "Economics Capstone Electives"

The courses listed below are not an exhaustive list. If you would like to see if a course not listed below can count as an Economics Elective, please contact your advisor to have the course reviewed.

Advanced Economics Electives

- ECON-SHU 201 Mathematics for Economists (*substituted by taking both Linear Algebra AND Multivariable Calculus*)
- ECON-SHU 225 Advanced Economic Theory
- ECON-SHU 402 Advanced Econometrics
- ECON-SHU 409 Advanced Topics in Macroeconomics
- ECON-SHU 416 Game Theory: Advanced Applications
- ECON-SHU 423 Econometrics for High Dimensional and Financial Data

Economics Electives

- BPEP-SHU 9042 The Political Economy of East Asia (formerly ECON-SHU 211)
- BPEP-SHU 238 International Economics
- ECON-SHU 5 Math for Econ 1: Optimization
- ECON-SHU 207 Urban and Real Estate Economics
- ECON-SHU 213 Causal Inference in the Social Sciences
- ECON-SHU 215 Economic History
- ECON-SHU 216 Introduction to Game Theory
- ECON-SHU 238 History of Modern Economic Growth: Exploring China From a Comparative Perspective
- ECON-SHU 260 International Trade
- ECON-SHU 306 Economics of Education
- ECON-SHU 316 Industrial Organization
- ECON-SHU 317 Quantitative Methods for the Economics of Gender
- ECON-SHU 332 Monetary Economics
- ECON-SHU 335 Development Economics
- ECON-SHU 338 International Economics
- ECON-SHU 342 Behavioral Economics
- ECON-SHU 349 Health Economics
- ECON-SHU 351 Labor Economics
- ECON-SHU 353 Public Economics
- ECON-SHU 355 Law and Economics
- ECON-SHU 360 Experimental Economics

- ECON-SHU 368 Financial Economics
 - ECON-SHU 997 Economics Independent Study
- Economics Capstone Electives**
- ECON-SHU 451 Economics Capstone Research
 - ECON-SHU 453 Economics Honors Program (same as BUSF-SHU 3 Business Honors Program)

Economics Minor

- BUSF-SHU 101 Statistics for Business and Economics **OR**
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability **OR**
- MATH-SHU 234 Mathematical Statistics
- ECON-SHU 1 Principles of Macroeconomics **OR**
- ECON-SHU 251 Economics of Global Business
- ECON-SHU 3 Microeconomics **OR**
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 202 Intermediate Macroeconomics **OR**
- ECON-SHU 10 Intermediate Microeconomics
- 8 credits from the Economics elective list

ECONOMICS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Economics major. It assumes a student begins taking Economics major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core or Principles of Macroeconomics	English or Chinese
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Spring Semester

Writing as Inquiry	Microeconomics	Probability and Statistics or alternate courses	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Intermediate Macroeconomics	Principles of Macroeconomics or Econometrics	Chinese or Core
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Spring Semester

Intermediate Macroeconomics	Econometrics or Multivariate Calculus or Mathematics for Economists	Economics Elective or Core	Chinese or Core
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Year 3

Fall Semester

Core Class	Economics Elective	General Elective	General Elective
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Spring Semester

Core Class	Economics Elective	Advanced Economics Elective	General Elective
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Year 4

Fall Semester

Core Class	Advanced Economics Elective	General Elective	General Elective
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Spring Semester

Core Class	Economics Capstone Research	General Elective	General Elective
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ECONOMICS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Pre-Calculus or Calculus)	Core or General Elective	English or Chinese
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Spring Semester

Writing as Inquiry	Calculus or Core Class	Core or General Elective	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Microeconomics	Probability and Statistics or alternate courses	Core or General Elective
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Spring Semester

Principles of Macroeconomics	Econometrics	Mathematics for Economists or Multivariate Calculus or General Elective	Core or General Elective
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Year 3

Fall Semester

Intermediate Microeconomics	Intermediate Macroeconomics	Core or General Elective	General Elective
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Spring Semester

Core or General Elective	Economics Elective	Economics Elective	General Elective
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Year 4

Fall Semester

Core or General Elective	Economics Elective	Advanced Economics Elective	Economics Capstone Elective
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Spring Semester

Core or General Elective	Advanced Economics Elective	Economics Capstone Elective	General Elective
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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 comprehend 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.

REQUIREMENTS FOR THE MAJOR

GCS Major - Total Major Credits: 36

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.

Required Courses: 20 credits

GCHN-SHU 110 The Concept of China (4 credits)

China and the World: Choose Two (8 credits)

Courses in this category focus on China in a broader global setting, concentrating on its contacts, historical and/or contemporary, with the outside world. The aim is to examine the dynamics of Chinese history, politics, economy, and culture as interconnected and integrated with various regions of the world. Select two of the following:

- GCHN-SHU 164 The History of the Silk Road(s) (Originally: The Stuff of Legends: The Many Meanings of the Early Silk Road(s))
- GCHN-SHU 252 20th-Century East Asian-American Relations
- GCHN-SHU 264 Chinese Migrant and Diasporic Network
- HIST-SHU 250 Tianxia: Traditional China and the World (Originally: China at the Center? An Exploration of Chinese Foreign Relations)
- HIST-SHU 312 China Encounters the World
- HIST-SHU 313 China Goes Global: How China and the World Changed Each Other
- SCA-SHU 9634 Global Connections: Shanghai
- SOCS-SHU 341 Cross-Strait Relations

Two-semester capstone course (8 credits)

Fall Semester: Methodologies in China Studies; Spring Semester: Research Project Seminar.

The first semester of this two-semester capstone course will focus on the methodologies of China-related research, 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 GCS major do not have to demonstrate competency in reading and analyzing Chinese language sources.

Global China Studies Electives (16 Credits)

Choose four courses from the list, with at least one course from each of the following three categories:

1. 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.

Sample courses:

- CCSF-SHU 122 Traditional Chinese Wisdom and Its Transformation in Modern Times
- GCHN-SHU 165 The Islamic World and China
- GCHN-SHU 200 Topics in Global China Studies: Chinese Opera - From Page to Stage
- GCHN-SHU 200 Topics in Global China Studies: The Lotus Sutra in East Asia
- GCHN-SHU 224 Chinese Maritime History

- GCHN-SHU 231 Social and Cultural Debates in 20th Century China
- GCHN-SHU 255 Eat, Pray, Ponder: Chinese Intellectual Culture Through Ages
- GCHN-SHU 267 The Cultivated City
- HIST-SHU 145 Food and Drugs in Chinese History
- HIST-SHU 153 History of Modern China
- HIST-SHU 379 The Social Life of Things: Functions of Material Culture in Ancient China
- PHIL-SHU 105 Introduction to Chinese Philosophy
- RELS-SHU 9270 Religion and Society in China

2.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.

Sample courses:

- CCCF-SHU 128 Contemporary Art & New Media
- CCCF-SHU 133 Journalism and Society in China
- GCHN-SHU 222 History of Chinese Cinemas
- GCHN-SHU 230 Culture and Media in Urban China
- GCHN-SHU 263 Voices from the Margin: Modern Chinese and Sinophone Studies
- HUMN-SHU 229 Masters of Asian Cinema
- HUMN-SHU 366 (266) Shanghai Stories
- INTM-SHU 268 Acoustic Ethnography of the Yangtze River Delta
- MCC-SHU 9451 Global Media Seminar: China

3.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.

Sample courses:

- BUSF-SHU 188 Chinese Business and Financial: A Bilingual Introduction
(CHIN-SHU 429)
- BUSF-SHU 288 Doing Business in China
- CCSF-SHU 123 Contemporary Chinese Political Thought
- ECON-SHU 238 History of Modern Economic Growth: Exploring China From a Comparative Perspective
- GCHN-SHU 240 Modern Chinese Governance
- GCHN-SHU 243 Chinese Environmental Studies
- GCHN-SHU 342 Political Economy of East Asia
(BPEP-SHU 9042)
- LWSO-SHU 9251 Law Culture and Politics in China
- SOCS-SHU 160 Intro to International Politics
- SOCS-SHU 275 US-China Relations
- SOCS-SHU 450 Chinese Environmental Governance

Study Abroad: Students enrolled in this track may study abroad for a maximum of two semesters.

Global China Studies minor

Four classes from the required and elective list of Global China Studies courses, of which at least one must be from the required list. Students may take up to two advanced or post-advanced language courses in fulfillment of this minor.

Global China Studies

SAMPLE SCHEDULE 1

Year 1

Fall Semester

Global Perspectives on Society

Core Class

Core Class

English, Chinese, Core, or General Elective

Spring Semester

Writing as Inquiry

Core Class

The Concept of China

English, Chinese, Core, or General Elective

Year 2

Fall Semester

Perspectives on the Humanities

China and the World

GCS Elective

Core, Chinese or General Elective

Spring Semester

China and the World

GCS Elective

Core Class

Core, Chinese or General Elective

Year 3

Fall Semester

GCS Elective

General Elective

General Elective

General Elective

Spring Semester

GCS Elective

General Elective

General Elective

General Elective

Year 4

Fall Semester

General Elective

GCS Capstone

Core Class

General Elective

Spring Semester

General Elective

GCS Capstone

General Elective

General Elective

Global China Studies

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core class	Core class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Core or General Elective	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	The Concept of China	China and the World	Core or Chinese
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Spring Semester

China and the World	GCS Elective	Core Class	Core or Chinese
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Year 3

Fall Semester

GCS Elective	GCS Elective	General Elective	General Elective
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Spring Semester

GCS Elective	General Elective	General Elective	General Elective
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Year 4

Fall Semester

General Elective	GCS Capstone	Core Class	General Elective
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Spring Semester

General Elective	GCS Capstone	General Elective	General Elective
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REQUIREMENTS FOR THE MAJOR

Advanced GCS Track - Total Major Credits: 40

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.

Required Courses: 28 Credits

GCHN-SHU 110 The Concept of China (4 credits)

China and the World (4 Credits)

Courses in this category focus on China in a broader global setting, focusing on its contacts (historical and/or contemporary) with the outside world. The aim is to examine the dynamics of Chinese history, politics, economy, and culture as interconnected and integrated with various regions of the world.

Select one of the following:

- GCHN-SHU 164 The History of the Silk Road(s) (Originally: The Stuff of Legends: The Many Meanings of the Early Silk Road(s))
- GCHN-SHU 252 20th-Century East Asian-American Relations
- GCHN-SHU 264 Chinese Migrant and Diasporic Networks
- HIST-SHU 250 Tianxia: Traditional China and the World (Originally: China at the Center? An Exploration of Chinese Foreign Relations)
- HIST-SHU 312 China Encounters the World
- HIST-SHU 313 China Goes Global: How China and the World Changed Each Other
- SCA-SHU 9634 Global Connections: Shanghai
- SOCS-SHU 341 Cross-Strait Relations

Language courses (8 Credits)

Non-Native Chinese Speakers: Advanced Chinese I & II, with Advanced II as a “Reading Newspaper” course

Native Chinese speakers must take the Reading Newspaper course and an additional elective from the list below

Chinese for Advanced Undergraduate Research (4 Credits)

This aim of these courses is to expand Chinese language research skills. Students will read, analyze, and use Chinese language sources to write, in English, response reports and research paper(s). The courses under this category will be taught in English. Select one of the following:

- GCHN-SHU283 Reading and Viewing Modern China
- GCHN-SHU 200 Topics in Global China Studies: Introduction to Classical Chinese
- GCHN-SHU 233 Foreign Societies in Classical Chinese Writing

Two-semester capstone course (8 Credits)

Fall Semester: Methodologies in China Studies; Spring Semester: Research Project Seminar.

The first semester of this two-semester capstone course will focus on the methodologies of China-related research, 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.

Global China Studies Electives (12 Credits): Take one course each from the following three categories:

1. 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.

Sample courses:

- CCSF-SHU 122 Traditional Chinese Wisdom and Its Transformation in Modern Times
- GCHN-SHU 165 The Islamic World and China
- GCHN-SHU 200 Topics in Global China Studies: Chinese Opera - From Page to Stage
- GCHN-SHU 200 Topics in Global China Studies: The Lotus Sutra in East Asia
- GCHN-SHU 224 Chinese Maritime History
- GCHN-SHU 231 Social and Cultural Debates in 20th Century China
- GCHN-SHU 255 Eat, Pray, Ponder: Chinese Intellectual Culture Through Ages
- GCHN-SHU 267 The Cultivated City
- HIST-SHU 145 Food and Drugs in Chinese History
- HIST-SHU 153 History of Modern China
- HIST-SHU 379 The Social Life of Things: Functions of Material Culture in Ancient China
- PHIL-SHU 105 Introduction to Chinese Philosophy
- RELS-SHU 9270 Religion and Society in China

2. 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.

Sample courses:

- CCCF-SHU 128 Contemporary Art & New Media
- CCCF-SHU 133 Journalism and Society in China
- GCHN-SHU 222 History of Chinese Cinemas
- GCHN-SHU 230 Culture and Media in Urban China
- GCHN-SHU 263 Voices from the Margin: Modern Chinese and Sinophone Studies
- HUMN-SHU 229 Masters of Asian Cinema
- HUMN-SHU 366 (266) Shanghai Stories
- INTM-SHU 268 Acoustic Ethnography of the Yangtze River Delta
- MCC-SHU 9451 Global Media Seminar: China

3. 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.

Sample courses:

- BUSF-SHU 188 Chinese Business and Financial: A Bilingual Introduction
(CHIN-SHU 429)
- BUSF-SHU 288 Doing Business in China
- CCSF-SHU 123 Contemporary Chinese Political Thought
- ECON-SHU 238 History of Modern Economic Growth: Exploring China From a Comparative Perspective
- GCHN-SHU 240 Modern Chinese Governance
- GCHN-SHU 243 Chinese Environmental Studies
- GCHN-SHU 342 Political Economy of East Asia
(BPEP-SHU 9042)
- LWSO-SHU 9251 Law Culture and Politics in China
- SOCS-SHU 160 Intro to International Politics
- SOCS-SHU 275 US-China Relations
- SOCS-SHU 450 Chinese Environmental Governance

Study Abroad: Students enrolled in the Advanced Global China Studies track may only spend no more than one semester abroad.

Advanced Global China Studies

SAMPLE SCHEDULE 1

For students who have advanced Chinese language skills and start to take Advanced Chinese I course in their first semester of second year.

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class	The Concept of China	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	China and the World	Advanced Chinese Course 1	Core or General Elective
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Spring Semester

GCS Elective	Advanced Chinese course 2	Core Class	Core, Chinese or General Elective
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Year 3

Fall Semester

GCS Elective	General Elective	General Elective	General Elective
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Spring Semester

GCS Elective	Chinese for Advanced Undergraduate Research	General Elective	General Elective
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Year 4

Fall Semester

General Elective	GCS Capstone	Core Class	General Elective
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Spring Semester

GCS Capstone	General Elective	General Elective	General Elective
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Advanced Global China Studies

SAMPLE SCHEDULE 2

For students who start to take Advanced Chinese I in their first semester of third year

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Core or General Elective	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	The Concept of China	Core or General Elective	Core or Chinese
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Spring Semester

China and the World	GCS Elective	Core Class	Core or Chinese
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Year 3

Fall Semester

General Elective	Advanced Chinese Language Course 1	GCS Elective	General Elective
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Spring Semester

GCS Elective	Advanced Chinese Language Course 2	General Elective	General Elective
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Year 4

Fall Semester

GCS Capstone	Chinese for Advanced Undergraduate Research	Core Class	General Elective
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Spring Semester

GCS Capstone	General Elective	General Elective	General Elective
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HUMANITIES

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 history, philosophy, literature, religion, film and media, and cultural studies. Humanities students engage with Asian, African, European, American, and Oceanian cultures and intellectual traditions. They learn to employ multiple disciplinary perspectives, and to engage with a wide range of different sources.

The Humanities major provides students with refined skills in critical reading, academic writing, interpretation, analysis and argument that are both highly valuable and highly transferable. Humanities majors graduate with the capacity to critically engage with our globalizing world, to contribute to contemporary scholarship, and to pursue a wide range of careers.

In the Humanities core courses, students acquire a set of methods for humanistic inquiry. Students then develop an area of thematic or disciplinary focus by taking courses in Shanghai and other NYU sites in consultation with advisors. In the senior year, they take the Capstone Course and produce a final thesis to showcase their intellectual development.

REQUIREMENTS FOR THE MAJOR

Humanities Major Requirements - 46 credits

With advisement and guided planning from the student's academic advisor and Humanities faculty, a student must take the following courses in order to meet the requirements for the Humanities major:

Introductory courses - 16 credits (at least 8 credits of which must be Foundations courses)

Foundations Courses - Choose at least 8 credits from this category

These are a sub-species of introductory courses that provide students with a reflective introduction to the methods and/or fundamental theories in a particular discipline. Appropriate introductory courses offered by faculty from other majors may also be classified as Foundations courses for purposes of the Humanities major, for example a methodologically oriented introduction to anthropology.

Courses that satisfy this requirement include but are not limited to:

- PHIL-SHU 150 What is Philosophy?
- LIT-SHU-101 What is Literature?
- HIST-SHU 130 What is History?

Other Introductory Courses

- GCHN-SHU 110 Concept of China
- PHIL-SHU 40 Ethics
- PHIL-SHU 105 Introduction to Chinese Philosophy
- CRWR-SHU 159 Introduction to Creative Writing
(WRIT-SHU 159)
- HIST-SHU 110 U.S. History Through Literature and Film
- HIST-SHU 126 World History: Part I
- HIST-SHU 127 World History: Part II
- HIST-SHU 153 History of Modern China Since 1840
- LIT-SHU-185 Gender and Migration in Islam
- HUMN-SHU 231 Contemporary Art History and Theory in North American and Europe
- GCHN-SHU 263 Voices from the Margin: Modern Chinese and Sinophone Writers
- GCHN-SHU 264 Chinese Migrant and Diasporic Networks
- RELS-SHU 9270 Religion and Society in China
- INTM-SHU 295-001 Digital Media and Culture

24 credits Advanced courses (at least 4 credits of which must be an Interdisciplinary course, and such that at least 12 credits fit together thematically in a way that can serve as a basis for a capstone project).

Interdisciplinary Courses - Choose at least 4 credits from this category

These are a sub-species of advanced courses that are explicitly interdisciplinary in orientation. For example, they may involve both historical and literary approaches to a topic, or philosophical and historical approaches to a topic, or literary and philosophical approaches to a topic. It is recommended that at least one Foundations course in a relevant discipline be a prerequisite.

Courses that satisfy this requirement include but are not limited to:

- SOCS-SHU 229 Capitalism, Socialism, Communism: Theory and Practice
- SOCS-SHU 272 The U.S. Constitution: Is It Relevant to China?
- HUMN-SHU 366 Shanghai Stories
- PHIL-SHU 130 Philosophy of Technology

Other Advanced Courses

Courses that satisfy this requirement include but are not limited to:

- CCCF-SHU 128 Contemporary Art & New Media
(ART-SHU 9077)
- LIT-SHU 246 Introduction to Gender and Feminism in African Literature
- HIST-SHU 232 Moments of Europe

- PHIL-SHU 80 Philosophy of Mind
- PHIL-SHU 90 Philosophy of Science
- PHIL-SHU 91 Philosophy of Biology
- PHIL-SHU 130 Philosophy of Technology: Thinking Machines
- HIST-SHU 303 Histories and Politics of Noise
- HIST-SHU 239 New York: History of the City
- HUMN-SHU 240 Gender, Sexuality, and Culture
- HUMN-SHU 200 French Cinema: The Birth of the Seventh Art
- HIST-SHU 208 War and Peace: Europe Since 1900
- HIST-SHU 225 Global Space Age
- HIST-SHU 209 Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700
- HUMN-SHU 168 Penning the Self(ie): Writing the Human Condition
- HIST-SHU 313 China Goes Global: How China and the World Transformed Each Other
- HUMN-SHU 366 Shanghai Stories
- LIT-SHU 253 Comparative Islamic Feminisms in World Literature
- RELS-SHU 9270 Religion and Society in China: Gods, Ghosts, Buddhas and Ancestors
- WRIT-SHU 219 Intermediate Fiction Workshop

Note: At least 12 credits (usually three 4-credit courses) 24 credits of 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 are required to make this selection by the end of the Spring semester of their Sophomore year, advised by the professor instructing the capstone seminar in consultation with the area leader, who is responsible for approving the selection.

One example of a thematically linked sequence of courses (in this case a multidisciplinary sequence, linked by the topic of gender):

- HUMN-SHU 240 Gender, Sexuality, and Culture
- LIT-SHU 253 Comparative Islamic Feminisms in World Literature
- HIST-SHU 209 Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700

Another example of a thematically linked sequence of courses (in this case a disciplinary sequence, linked by the methodology of philosophy):

- PHIL-SHU 80 Philosophy of Mind
- PHIL-SHU 90 Philosophy of Science
- PHIL-SHU 91 Philosophy of Biology

Capstone Sequence - 6 credits

In their final year of course work, Humanities majors are required to complete a substantial research project during a two-semester sequence of capstone courses. The credits for the capstone courses will be distributed across the Fall and Spring semesters as follows:

In the Fall semester, students earn 2 credits for enrolling in the Humanities Capstone Seminar (HUMN-SHU 400A) and completing the required sequence of preparatory assignments for their research project. In the Spring semester, they may choose one of the following two options:

Option 1: Continue their research projects with the capstone instructor and turn in the capstone thesis with all other required work for the course (4 credits).

Option 2: Continue in an Advanced 4-credit course, and complete the capstone thesis as part of the course with approval and advisement from the instructor of the course. Students selecting Option 2 should inform their academic advisor and the Humanities Area Leader of their decision before the end of Fall semester.

In total, the Capstone sequence accounts for 6 credits total in two courses, the 2-credit Capstone Seminar in the Fall semester and a 4-credit research based course in the Spring semester.

HUMANITIES

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Humanities major. It assumes a student begins taking Humanities major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Humanities Introductory Course (foundations)	Core Class or General Elective	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Humanities Introductory Course	Humanities Introductory Course (foundations)	Core, General Elective or Chinese
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Spring Semester

Core Class	Humanities Introductory Course	Core Class	Core, General Elective or Chinese
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Year 3

Fall Semester

Core or General Elective	Humanities Advanced course (Interdisciplinary course)	Humanities Advanced course	General Elective
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Spring Semester

Humanities Advanced course	Humanities Advanced course	General Elective	General Elective
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Year 4

Fall Semester

Humanities Advanced course	Humanities Advanced course	2-credit Humanities Capstone Seminar	General Elective
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Spring Semester

4-credit Humanities Capstone	General Elective	General Elective	General Elective
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HUMANITIES

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Core Class or General Elective	English, Chinese, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Humanities Introductory Course (foundations)	Humanities Introductory Course	Core Class, General Elective, or Chinese
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Spring Semester

Core Class	Humanities Introductory Course (foundations)	Humanities Introductory Course	Core Class, General Elective, or Chinese
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Year 3

Fall Semester

Humanities Advanced courses (Interdisciplinary course)	Humanities Advanced courses	Core Class	Core class or General Elective
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Spring Semester

Humanities Advanced courses	Humanities Advanced courses	General Elective	General Elective
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Year 4

Fall Semester

Humanities Advanced courses	Humanities Advanced courses	2-credit Humanities Capstone Seminar	General Elective
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Spring Semester

4-credit Humanities Capstone	General Elective	General Elective	General Elective
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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 Application 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, audio, video and the web. Application Lab introduces modern rapid software prototyping, theories of innovation, early-stage business concepts, creative coding and user experience design.

Students then choose from a range of elective categories across the disciplines of art & design, humanities, science, computation, and business with great freedom to make their selections. Students will receive guidance in their choices if they want to specialize in a particular area (business, arts, humanities or computer science). All majors finish with a two semester Capstone Studio course that synthesizes theoretical research and practice to produce an emerging media project and related essay.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill a particular requirement. Requirements may be met through equivalent courses in the global network with prior approval.

Foundations - 12 credits

This foundation is required.

- INTM-SHU 205 What is New Media?

Students may choose any two of the following courses:

- INTM-SHU 101 Interaction Lab
- INTM-SHU 110 Application Lab
- INTM-SHU 120 Communications Lab

Electives - 24 credits

Sample Courses

- INTM-SHU 190 Collective Methods
- INTM-SHU 193 Chinese Cyberculture
- INTM-SHU 201T Construction of Authenticity in Contemporary Art
- INTM-SHU 202T Media Architecture
- INTM-SHU 203T Exploring Movement Practices with Physical Computing
- INTM-SHU 204T Critical Data and Visualization
- INTM-SHU 208D Realtime Audiovisual Performance System
- INTM-SHU 210 The Cultivated City
- INTM-SHU 215 Machine Learning for New Interfaces
- INTM-SHU 221 Creating Immersive Worlds
- INTM-SHU 222 Introduction to Robotics
- INTM-SHU 223 Programming Design Systems
- INTM-SHU 226 Artificial Intelligence Arts
- INTM-SHU 230 Nature of Code
- INTM-SHU 239 Digital Fabrication
- INTM-SHU 249 Street Life & Street Food in the 21st Century City
- INTM-SHU 255 Shenzhen Style
- INTM-SHU 260 Topics in Electronics & Physical Computing: Working With Electrons
- INTM-SHU 260-001 Topics in Electronics & Phys Computing: Kinetic Light
- INTM-SHU 260-002 Topics in Electronics & Phys Computing: Bio-Inspired Robot Systems
- INTM-SHU 266 Digital Heritage
- INTM-SHU 268 Acoustic Ethnography of the Yangtze River Delta
- INTM-SHU 271 Re-Made in China
- INTM-SHU 280 Interactive Motion Design
- INTM-SHU 280C VR/AR Fundamentals
- INTM-SHU 284 Digital Sculpting for Facial Animation
- INTM-SHU 288 Kinetic Interfaces
- INTM-SHU 295-001 Seminar Topics: Digital Media & Culture
- INTM-SHU 295-002 Seminar Topics: From Cyborgs to Siri: Gender, Tech & Media
- BUSF-SHU 211 Design Thinking
- CRWR-SHU 245 Speculative Fictions
- PHIL-SHU 130 Philosophy of Technology: Thinking Machines

Capstone - 8 credits

- INTM-SHU 400 Capstone Studio I
- INTM-SHU 401 Capstone Studio II

REQUIREMENTS FOR THE MINOR

Foundations - 8 credits

Students may choose any two of the following courses:

- INTM-SHU 101 Interaction Lab
- INTM-SHU 110 Application Lab
- INTM-SHU 120 Communications Lab
- INTM-SHU 205 What is New Media?

Electives - 7 - 8 credits

Students may take any 7 - 8 credits worth of electives from the Interactive Media Arts elective list.

INTERACTIVE MEDIA ARTS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a IMA major. It assumes a student begins taking IMA major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester			
Global Perspectives on Society	Core Class	Core Class or General Elective	English, Chinese, core or General Elective
Spring Semester			
Writing as Inquiry	Core Class	Interaction Lab or Application Lab or Communications Lab	English, Chinese, core or General Elective

Year 2

Fall Semester			
Perspectives on the Humanities	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Interactive Media Elective	Core, Chinese or General Elective
Spring Semester			
Core Class	Interactive Media Elective	Interaction Lab or Application Lab or Communications Lab	Core, Chinese or General Elective

Year 3

Fall Semester			
Interactive Media Elective	Core Class	Interactive Media Elective	General Elective
Spring Semester			
Interactive Media Elective	General Elective	General Elective	General Elective

Year 4

Fall Semester			
Capstone I	Interactive Media Elective	General Elective	General Elective
Spring Semester			
Capstone II	General Elective	General Elective	General Elective

INTERACTIVE MEDIA ARTS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class or General Elective	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class or General Elective	Core Class	English, Chinese, core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Interactive Media Elective	Core, Chinese or General Elective
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Spring Semester

Core Class	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Interactive Media Elective	Core, Chinese or General Elective
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Year 3

Fall Semester

Interactive Media Elective	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Core Class	General Elective
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Spring Semester

Interactive Media Elective	Interactive Media Elective	General Elective	General Elective
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Year 4

Fall Semester

Capstone I	Interactive Media Elective	General Elective	General Elective
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Spring Semester

Capstone II	General Elective	General Elective	General Elective
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INTERACTIVE MEDIA + BUSINESS

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 Application 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 3 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. 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 Studio course by synthesizing methods of research and practice to produce an interactive project and business plan.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill a particular requirement. Requirements may be met through equivalent courses in the global network with prior approval

Emerging Media Foundation Courses (pick 2 of 4): 8 credits

- INTM-SHU 110 Application Lab
- INTM-SHU 101 Interaction Lab
- INTM-SHU 120 Communications Lab
- INTM-SHU 205 What is New Media

Required Business Foundation Course: 8 credits

- ECON-SHU 251 Economics of Global Business
- BUSF-SHU 250 Principles of Financial Accounting

Business Flexible Core Courses: 8 credits

Choose 2 from the following (sophomore standing required):

- BUSF-SHU 210 Business Analytics
- BUSF-SHU 351 Operations Management
- MGKT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing
- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 202 Foundations of Finance

Business Elective Courses: 12 credits

Any Business core or elective

Sample Courses:

- BUSF-SHU 311 New Venture Strategy
- BUSF-SHU 142 Information Technology in Business and Society
- MKTG-SH 110 Branding and Innovation

Interactive Media Arts/Business Elective Courses: 20 credits

Sample Courses:

- INTM-SHU 226 Artificial Intelligence Arts
- INTM-SHU 232 Critical Data and Visualization
- IMBX-SHU 211 Design Thinking
- IMBX-SHU 101T Life Design
- IMBX-SHU 102T Global Experience Design
- IMBX-SHU 103T Understanding Financial Technology
- CCST-SHU 132 Creativity Considered

A complete and current list of courses is available at: ima.shanghai.nyu.edu/curriculum/

Capstone Studio: 8 credits

Important Notes:

- IMB majors are subject to the general degree requirements of NYU Shanghai. They must complete 128 total credits with a cumulative grade point average of at least 2.0.
- IMB majors are not able to double major in either Business & Finance, Business & Marketing, or Interactive Media Arts.
- The required Business & Finance and Business & Marketing course, Foundations of Finance, is optional for IMB majors. Students wishing to take Foundations of Finance must fulfill these prerequisites: Calculus, Microeconomics, and Statistics for Business and Economics.
- Microeconomics and Statistics for Business and Economics can be counted as Business electives for IMB majors.
- Students who began NYU Shanghai before the 2018-2019 academic year who have already taken Communications Lab and Interaction Lab may substitute one of them for Application Lab.

INTERACTIVE MEDIA + BUSINESS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a IMB major. It assumes a student begins taking IMB major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, core or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Interaction Lab or Communications Lab or Application Lab or What is New Media	English, Chinese, core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Interaction Lab or Communications Lab or Application Lab or What is New Media	Interactive Media Elective	Core, Chinese or General Elective
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Spring Semester

Economics of Global Business	Principles of Financial Accounting	Interactive Media Elective	Core, Chinese or General Elective
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Year 3

Fall Semester

Interactive Media Elective	Core Class	Business Flexible Core	Core or General Elective
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Spring Semester

Interactive Media Elective	Business Flexible Core	Business Elective	Business Elective
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Year 4

Fall Semester

Capstone Seminar (IMB)	Core Class or General Elective	Business Elective	General Elective
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Spring Semester

Capstone Seminar (IMB)	Interactive Media Elective	General Elective	General Elective
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INTERACTIVE MEDIA + BUSINESS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class or General Elective	Core Class	English, Chinese, core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Interaction Lab or Communications Lab or Application Lab or What is New Media	Interactive Media Elective	Core, Chinese or General Elective
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Spring Semester

Economics of Global Business	Interaction Lab or Communications Lab or Application Lab or What is New Media	Principles of Financial Accounting	Core, Chinese or General Elective
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Year 3

Fall Semester

Interactive Media Elective	Interactive Media Elective	Core Class	Business Flexible Core
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Spring Semester

Interactive Media Elective	Business Flexible Core	Business Elective	Interactive Media Elective
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Year 4

Fall Semester

Capstone Seminar (IMB)	Business Elective	Core Class or General Elective	General Elective
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Spring Semester

Capstone Seminar (IMB)	Business Elective	General Elective	General Elective
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MATHEMATICS

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, develop powerful artificial intelligence, analyze financial markets, model the physical universe, develop predictions for climate science, map and study the human genome, or analyze the structure of the human brain. Mathematics draws vitality from questions arising in nature, as well as from applications to industry and technology, and yet it is grounded in rigor and abstraction.

The Mathematics major is designed to give a comprehensive training in both mathematics and its applications to prepare for a career in industry, to give a solid background for computer science, physics, chemistry, engineering, data science, operations research, and other disciplines, or to pursue more advanced degree programs. Courses required for the Mathematics major provide essential training and experience in analysis, algebra, differential equations, and probability theory. Mathematics elective courses cover numerous topics of pure and applied mathematics, including statistics, numerical analysis, partial differential equations, topology, differential geometry, scientific computing, mathematical finance, abstract algebra, number theory, and functional analysis.

NYU Shanghai offers two degree tracks in Mathematics: Mathematics and Honors Mathematics. Students who are interested in pursuing graduate study in Mathematics are encouraged to consider the Honors Mathematics degree. The Honors Mathematics degree also provides a strong basis to studies in other sciences, from physics to data science, and students are encouraged to explore elective courses in these disciplines.

REQUIREMENTS FOR THE MAJOR

Math major students must either take Calculus, place out of Calculus, or take Honors Calculus, in order to satisfy the Mathematics requirement in the core curriculum. If Honors Calculus is used for the Core requirement, it may not be used as a "Constrained Math Elective" for the major as listed below.

To fulfill the Core Curriculum Science requirement, Math/ Honors Math majors must choose two lecture courses plus one lab from the following list. Please note prerequisite courses for planning and course selection.

Lecture sections (choose two):

- Foundations of Biology I (BIOL-SHU 21), Foundations of Biology II (BIOL-SHU 21)
- General Physics (PHYS-SHU 11) or Foundations of Physics Honors (PHYS-SHU 91), General Physics II (PHYS-SHU 12 or Foundations of Physics II Honors (PHYS-SHU 93)
- Foundations of Chemistry I (CHEM-SHU 125), Foundations of Chemistry II (CHEM-SHU 126)

Lab sections (choose one):

- FoS Biology Laboratory (BIOL-SHU 123)
- FoS Physics Laboratory (PHYS-SHU 71), Physics II Lab (PHYS-SHU 94)
- FoS Chemistry Laboratory (CHEM-SHU 127)

Not every course listed is taught every semester, and in any given semester other courses may be offered as a replacement. Requirements may be met through equivalent courses in the global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Mathematics Courses

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.

- MATH-SHU 140 Linear Algebra
- MATH-SHU 143 Foundations of Mathematical Methods or MATH-SHU 201 Honors Calculus
- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics or MATH-SHU 233 Honors Theory of Probability
- MATH-SHU 262 Ordinary Differential Equations **or**
MATH-SHU 362 Honors Ordinary Differential Equations

Math Electives

Additionally to Calculus and the five required mathematics course, students are required to choose eight Math Electives. At least two must be from the category "Constrained Math Electives". Note that most elective courses require either the course MATH-SHU 143 Foundations of Mathematical Methods or the course MATH-SHU 201 Honors Calculus. Courses with a * can be used to complete the capstone projects in the senior year (see below).

Constrained Math Electives

- MATH-SHU 141 Honors Linear Algebra I
- MATH-SHU 142 Honors Linear Algebra II
- MATH-SHU 282 Functions of a Complex Variable
- MATH-SHU 328 Honors Analysis I
- MATH-SHU 329 Honors Analysis II*
- MATH-SHU 348 Honors Algebra I
- MATH-SHU 349 Honors Algebra II

- MATH-SHU 377 Differential Geometry*

Additional Mathematics Electives

This list is not exhaustive; other courses may be added if approved.

- CSCI-SHU 2314 Discrete Mathematics
- MATH-SHU 160 Networks and Dynamics
- MATH-SHU 226 Functional Analysis
- MATH-SHU 234 Mathematics of Statistics and Data Science I
- MATH-SHU 236 Mathematics of Statistics and Data Science II*
- 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 339 Real Variables*
- MATH-SHU 341 Number Theory
- MATH-SHU 345 Introduction to Stochastic Processes*
- MATH-SHU 375 Topology*
- MATH-SHU 997 Math Independent Study*

Capstone

In their senior year, each Mathematics student is additionally required to complete a capstone project, ending with a written report and an oral presentation. This special project can be completed as part of any of your senior courses if indicated in the above list by an *.

MATHEMATICS MINOR

Students wishing to minor in Mathematics are required to take four 4-credit mathematics courses at the Calculus level or higher.

MATHEMATICS

SAMPLE SCHEDULE 1

This is one example of how a student could organize their courses if pursuing a Mathematics major. All the required courses are taken in the first two years, which opens the doors to most mathematics electives. It is strongly advised to take Linear algebra in the first year as it is a prerequisite for most of the other Mathematics courses.

Year 1

Fall Semester

Global Perspectives on Society I	Calculus (Core Class)	Linear algebra	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Multivariate Calculus	Foundations of Mathematical Methods	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Probability and Statistics	Math or General elective	Chinese, Core or General Elective
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Spring Semester

Core Class	Ordinary Differential Equations	Math or General elective	Chinese, Core or General Elective
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Year 3

Fall Semester

Core class or General Elective	Math Elective	Math Elective	General Elective
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Spring Semester

Math or General Elective	Math Elective	Math Elective	General Elective
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Year 4

Fall Semester

General Elective	Math Elective*/ Math Elective	Math or General Elective	General Elective
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Spring Semester

General Elective	Math Elective*/ Math Elective	Math or General Elective	General Elective
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MATHEMATICS

SAMPLE SCHEDULE 2

This schedule is an example for students who want to explore topics in computer science in the course of their studies. These could be replaced for instance by courses in physics, chemistry, economics, or finance.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core/ General Elective	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Linear algebra	Core/ General Elective	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Probability and Statistics	Multivariate Calculus	Core, General Elective or Chinese
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Spring Semester

Core Class	Ordinary Differential Equations	Foundations of Mathematical Methods	Core, General Elective or Chinese
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Year 3

Fall Semester

Core Class or General Elective	Math Elective	Math Elective	Math or General Elective
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Spring Semester

Math or General Elective	Math Elective	Math Elective	General Elective
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Year 4

Fall Semester

General Elective	Math Elective	Math Elective	General Elective
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Spring Semester

General Elective	Math Elective	Math Elective	General Elective
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REQUIREMENTS FOR THE MAJOR

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.

Honors Mathematics students must take Honors Calculus or Honors Analysis I to satisfy the Mathematics requirement in the core curriculum. To fulfill the Core Curriculum Science requirement, Math/ Honors Math majors must choose two lecture courses plus one lab from the following list. Please note prerequisite courses for planning and course selection.

Lecture sections (choose two):

- Foundations of Biology I (BIOL-SHU 21), Foundations of Biology II (BIOL-SHU 21)
- General Physics (PHYS-SHU 11) or Foundations of Physics Honors (PHYS-SHU 91), General Physics II (PHYS-SHU 12 or Foundations of Physics II Honors (PHYS-SHU 93)
- Foundations of Chemistry I (CHEM-SHU 125), Foundations of Chemistry II (CHEM-SHU 126)

Lab sections (choose one):

- FoS Biology Laboratory (BIOL-SHU 123)
- FoS Physics Laboratory (PHYS-SHU 71), Physics II Lab (PHYS-SHU 94)
- FoS Chemistry Laboratory (CHEM-SHU 127)

Not every course listed is taught every semester, and in any given semester other courses may be offered as a replacement. Requirements may be met through equivalent courses in the global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Mathematics Courses

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|----------------|--|
| • MATH-SHU 141 | Honors Linear Algebra I |
| • MATH-SHU 142 | Honors Linear Algebra II |
| • MATH-SHU 233 | Honors Theory of Probability |
| • MATH-SHU 282 | Functions of a Complex Variable |
| • MATH-SHU 328 | Honors Analysis I |
| • MATH-SHU 329 | Honors Analysis II* |
| • MATH-SHU 348 | Honors Algebra I |
| • MATH-SHU 362 | Honors Ordinary Differential Equations |

Math Electives

Additionally to Honors Calculus and the eight required mathematics course, students are required to choose five Math Electives. It is strongly encouraged to take the required mathematics courses first. This list is not inclusive; other courses may be added if approved. Courses with a * can be used to complete the capstone projects in the senior year (see below).

- | | |
|----------------|--|
| • MATH-SHU 160 | Networks and Dynamics |
| • MATH-SHU 226 | Functional Analysis |
| • MATH-SHU 234 | Mathematics of Statistics and Data Science I |
| • MATH-SHU 236 | Mathematics of Statistics and Data Science II* |
| • 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 329 | Honors Analysis II* |
| • MATH-SHU 339 | Real Variables* |
| • MATH-SHU 341 | Number Theory |
| • MATH-SHU 345 | Introduction to Stochastic Processes* |

- MATH-SHU 349 Honors Algebra II
- MATH-SHU 375 Topology*
- MATH-SHU 377 Differential Geometry*
- MATH-SHU 997 Math Independent Study*

Capstone

In their senior year, each Mathematics student is additionally required to complete a capstone project, ending with a written report and an oral presentation. This special project can be completed as part of any of your senior courses if indicated in the above list by an *.

HONORS MATHEMATICS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing an Honors Mathematics major. Taking all required courses in the first two years allows access to most honors math electives.

Year 1

Fall Semester

Global Perspectives on Society	Honors Calculus (Core Class)	Honors Linear Algebra I	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Honors Analysis I	Honors Linear Algebra II	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Honors Analysis II	Honors Ordinary Differential Equations	Core, General Elective, or Chinese
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Spring Semester

Core Class	Functions of a Complex Variable	Honors Theory of Probability	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core Class	Math Elective	Math or General Elective	Core class or General Elective
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Spring Semester

Core Class	Math Elective	Math or General Elective	General Elective
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Year 4

Fall Semester

General Elective	Honors Algebra	Math or General Elective	General Elective
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Spring Semester

General Elective	Math Elective	Math or General Elective	General Elective
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HONORS MATHEMATICS

SAMPLE SCHEDULE 2

This is an alternative schedule for students who decide to enroll in the Honors Mathematics track at a later time.

Year 1

Fall Semester

Global Perspectives on Society

Calculus (Core Class)

English, Chinese, Core or General Elective

General Elective

Spring Semester

Writing as Inquiry

Multivariable Calculus

English, Chinese, Core or General Elective

General Elective

Year 2

Fall Semester

Perspectives on the Humanities

Honors Calculus

Honors Linear Algebra I

Honors Ordinary Differential Equations

Spring Semester

Core, Chinese, or General Elective

Honors Analysis I

Honors Linear Algebra II

Honors Theory of Probability

Year 3

Fall Semester

Core Class

Math Elective

Math Elective

Core class or General Elective

Spring Semester

Core Class

Math Elective

Math Elective

General Elective

Year 4

Fall Semester

Core, General Elective, or Chinese

Honors Analysis II

Honors Algebra I

General Elective

Spring Semester

Core, General Elective, or Chinese

Functions of a Complex Variable

Math Elective

General Elective

Neural Science

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 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.

REQUIREMENTS FOR THE MAJOR

Not every course listed below is taught in every semester. In any given semester, other courses may be offered that fulfill the requirement. 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. Students may not double major in Neural Science and Biology.

Foundational Courses

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory **OR**
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 11 General Physics I **OR**
- PHYS-SHU 91 Foundations of Physics I Honors
- PHYS-SHU 12 General Physics II **OR**
- (PHYS-SHU 93) Foundations of Physics II Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Lab

Note:

1. NS majors are encouraged to complete the above classes in their first 2 years.
2. NS majors are not required to take Foundations of Physics III Honors and may substitute General Physics I & II for Foundations of Physics I & II Honors.
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. 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.

Required Major Courses (All Six)

- NEUR-SHU 100 Math Tools for Life Math Tools for Life Sciences/Statistics for the Behavioral Sciences (Spring)
- NEUR-SHU 201 Introduction to Neural Science (Fall)
- NEUR-SHU 251 Behavioral and Integrative Neuroscience (Spring)
- NEUR-SHU 210 Cellular and Molecular Neuroscience (Fall)

One approved upper-level course in either Psychology or Biology:

Approved upper-level Psychology courses:

- NEUR-SHU 222 Perception
- NEUR-SHU 265 Neural Bases of Speech and Language

*The following courses will not be offered at NYU Shanghai but students may take one of them at New York to fulfill the requirement.

- PSYCH-UA 29 Cognition
- PSYCH-UA 44 Lab in Perception
- PSYCH-UA 46 Lab in Human Cognition
- PSYCH-UA 55 Psychology, Neuropsychology, and Medicine

- PSYCH-UA 300 From Illusions to Inference

Approved upper-level Biology courses:

- BIOL-SHU 30 Genetics
- BIOL-SHU 50 Immunology
- BIOL-SHU 263 Developmental Biology
- CHEM-SHU 881 Biochemistry I
- CHEM-SHU 882 Biochemistry II

*The following courses will not be offered at NYU Shanghai but students may take one of them at New York to fulfill the requirement.

- BIOL-UA 25 Principles of Animal Physiology
- BIOL-GA 1501 Mathematics in Medicine and Biology
- BIOL-GA 1502 Computers in Medicine and Biology

Major Capstone Course: NEUR-SHU 997/998 Independent Study in Neural Science (2-4 credits, can be repeated once): Open to senior neural science majors with permission of DUS.

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.

Major Electives (Choose Two)

- MATH-SHU 160 Networks and Dynamics (Spring)
- NEUR-SHU 10 Free Will and the Brain (Spring)
- NEUR-SHU 222 Perception (Spring, can count as an approved upper-level Psychology course)
- NEUR-SHU 261 Neurobiology of Decision Making (Spring)
- NEUR-SHU 265 Neural Bases of Speech and Language (Fall, can count as an approved upper-level Psychology course)
- NEUR-SHU 305 Special Topics in Neural Science: The Meaning of Natural Language (Fall)
- NEUR-SHU 270 Introduction to Theoretical Neuroscience (Fall)

*The following courses will not be offered at NYU Shanghai but students may take one of them at New York to fulfill the requirement.

- NEURL-UA 302 Special Topics in Neural Science
- NEURL-UA 305 Development and Dysfunction of the Nervous System

General Electives

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.

Recommended Computer Science General Electives:

- CSCI-SHU 101 Introduction to Computer Science
- CSCI-SHU 220 Algorithms
- CSCI-SHU 358 Theory of Computation
- CSCI-SHU 360 Machine Learning
- CSCI-SHU 372 Artificial Intelligence
- CSCI-SHU 402 Advanced Algorithms
- EENG-SHU 2054 Signals and Systems
- EENG-SHU 251 Circuits
- EENG-SHU 352 Control Systems

- EENG-SHU 375 Robotic Systems

Recommended Mathematics General Electives:

- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 140 Linear Algebra
- MATH-SHU 233 Theory of Probability
- MATH-SHU 235 Probability and Statistics
- MATH-SHU 263 Partial Differential Equations

Neural Science Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- NEUR-SHU 201 Introduction to Neural Science
- NEUR-SHU 251 Behavioral and Integrative Neuroscience **OR**
(NEUR-SHU 210) Cellular and Molecular Neuroscience

NEURAL SCIENCE

SAMPLE SCHEDULE 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.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	8 credits: General Physics I/ Foundations of Physics I Honors/, Foundations of Chemistry I, and FoS Physics Laboratory	2 credits: English or Chinese
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Spring Semester

Writing as Inquiry	Core Class or NS Elective	8 credits: Foundations of Biology I, Foundations of Chemistry II, and FoS Chemistry Laboratory	2 credits: English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Introduction to Neural Science	5 credits: Foundations of Biology II and FoS Biology Laboratory	NS elective, Core, Chinese, or General Elective
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Spring Semester

Behavioral and Integrative Neuroscience	Math Tools for Life Sciences	Core Class, NS elective, Chinese, English, or General Elective	5 credits: General Physics II/Foundations of Physics II Honors, and Physics II Lab
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Year 3

Fall Semester

Cellular and Molecular Neuroscience	NS Elective	General Elective	General Elective
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Spring Semester

Approved upper-level course in either Psychology or Biology	NS Elective	General Elective	General Elective
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Year 4

Fall Semester

General Elective	Major Capstone or General Elective	General Elective	General Elective
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Spring Semester

Major Capstone or General Elective	General Elective	General Elective	General Elective
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NEURAL SCIENCE

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese or General Elective
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Spring Semester

Writing as Inquiry	Core Class	3 credits: Foundations of Biology I	English, Chinese or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Intro to Neural Science	8 credits: Foundations of Chemistry I, Foundations of Biology II, and FoS Biology Laboratory	No class
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Spring Semester

Math Tools for Life Sciences	Behavioral and Integrative Neuroscience	5 credits: Foundations of Chemistry II and FoS Chemistry Laboratory	Chinese or General Elective
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Year 3

Fall Semester

Cellular and Molecular Neuroscience	NS Elective	General Elective	Chinese or General Elective
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Spring Semester

Approved upper-level course in either Psychology or Biology	NS Elective	General Elective	General Elective
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Year 4

Fall Semester

5 credits: General Physics I/Foundations of Physics I Honors and FoS Physics Laboratory	Major Capstone or General Elective	General Elective	General Elective
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Spring Semester

5 credits: General Physics II/Foundations of Physics II Honors and Physics II Lab	Major Capstone or General Elective	General Elective	General Elective
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PHYSICS

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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed below is taught in every semester. In any given semester, other courses may be offered that fulfill the requirement. Requirements may be met through taking equivalent courses in NYU's global network with the prior approval.

GPA minimum requirement

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, 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.

Foundational Courses

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 123 FoS Biology Laboratory
- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 91 Foundations of Physics I Honors **OR**
- PHYS-SHU 11 General Physics I (with a B+ or better grade)
- PHYS-SHU 93 Foundations of Physics II Honors
- PHYS-SHU 95 Foundations of Physics III Honors
- PHYS-SHU 96 Foundations of Physics IV Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Laboratory

Note:

- 1) 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.
- 2) 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.
- 3) Physics majors are not required to take Foundations of Biology II.
- 4) Physics majors are required to take Linear Algebra and Differential Equations. They should not take Linear Algebra.

Required Courses

- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics
- MATH-SHU 265 Linear Algebra and Differential Equations
- PHYS-SHU 106 Mathematical Physics
- PHYS-SHU 251 Electricity and Magnetism
- PHYS-SHU 301 Quantum Mechanics

- PHYS-SHU 302 Statistical Mechanics and Thermodynamics
- PHYS-SHU 303 Advanced Physics Laboratory
- PHYS-SHU 998 Integrated Science Capstone (This course must be taken in the last semester before graduation)

Physics Electives - Choose Two

- PHYS-SHU 210 Computational Physics
- PHYS-SHU 252 Solid State Physics
- PHYS-SHU 255 Biophysics
- PHYS-SHU 314 Astrophysics
- PHYS-SHU 315 Nuclear and Particle Physics

Physics Minor

- PHYS-SHU 91 Foundations of Physics I Honors **OR**
- PHYS-SHU 11 General Physics I
- PHYS-SHU 93 Foundations of Physics II Honors **OR**
- PHYS-SHU 12 General Physics II
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Laboratory
- Two Physics Elective Courses (Must bring total credits of the minor courses to 16 or more)

PHYSICS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Physics major. It assumes a student begins taking Physics major courses in the first semester of their first year. Sample Schedule 2 offers an alternate plan that involves beginning to pursue a Physics major in the spring semester of the first year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	8 credits: Foundations of Physics I Honors, Foundations of Chemistry I, and FoS Physics Laboratory	2 credits: English or Chinese
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Spring Semester

Writing as Inquiry	Multivariable Calculus	8 credits: Foundations of Physics II Honors, Physics II Lab and Foundations of Biology I	2 credits: English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Linear Algebra and Differential Equations	5 credits: Foundations of Physics III Honors and FoS Biology Laboratory	Probability and Statistics
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Spring Semester

8 credits: Foundations of Physics IV Honors, Foundations of Chemistry II, and FoS Chemistry Laboratory	Mathematical Physics	Core or General Elective	English or Chinese
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Year 3

Fall Semester

Electricity and Magnetism	Quantum Mechanics	Physics Elective	Chinese or General Elective
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Spring Semester

Statistical Mechanics and Thermodynamics	Physics Elective	General Elective	Chinese or General Elective
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Year 4

Fall Semester

Advanced Physics Lab	General Elective	General Elective	Chinese or General Elective
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Spring Semester

Integrated Science Capstone	General Elective	General Elective	Chinese or General Elective
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PHYSICS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Multivariable Calculus	English, Chinese, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	8 credits: Foundations of Physics I Honors, Foundations of Chemistry I, and FoS Physics Laboratory	Linear Algebra and Differential Equations	No Class
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Spring Semester

Probability and Statistics	8 credits: Foundations of Physics II Honors, Physics II Lab, Foundations of Biology I	General Elective	No Class
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Year 3

Fall Semester

5 credits: Foundations of Physics III Honors and FoS Biology Laboratory	Chinese or General Elective	General Elective	General Elective
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Spring Semester

Mathematical Physics	8 credits: Foundations of Physics IV Honors, Foundations of Chemistry II, FoS Chemistry Laboratory	Chinese or General Elective	No Class
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Year 4

Fall Semester

Physics Elective	Electricity and Magnetism	Quantum Mechanics	General Elective
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Spring Semester

Statistical Mechanics and Thermodynamics	Advanced Physics Lab	Physics Elective	Integrated Science Capstone
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Social scientists study human interactions among individuals, families, communities, and nations. Using a range of analytical, interpretive, and experimental tools from anthropology, economics, sociology, political science, and psychology, 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, 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 disciplinary area or a synthetic combination of fields 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 on classic forms of social science analysis and new frontiers in social science research. Social Science majors select two foundational courses in the social science disciplines, and three focus courses chosen in consultation with their faculty mentor to deepen their engagement with a social science discipline (for example, anthropology or political science)* or an interdisciplinary topic of interest (for example, environmental studies, political economy, or global health). China—its peoples and politics—is an important focus for teaching and learning in the major, but the major is purposefully heterogeneous in the geographical, methodological, and analytical scope of its course offerings. Social Science majors complete an independent research project as part of a one-semester senior year capstone project.

*NYU Shanghai students interested in a disciplinary focus in Economics are advised to pursue the Economics major instead of the Social Science major.

REQUIREMENTS FOR THE MAJOR

Note: While Calculus is not a requirement in the Social Science major, some Foundational/Methods/Focus courses (but not all) do require Calculus as a prerequisite. Thus, students are encouraged to consider what courses they would like to take for the Social Science major and whether Calculus is a prerequisite.

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill these requirements. Requirements may be met through equivalent courses in NYU's global network with prior approval.

Foundational Courses (100-200 level) - Two Courses

These courses provide an introduction to the foundational knowledge and building blocks of analytic methods in a range of social sciences. Typical coursework: A mix of lectures, discussion, assignments, shorter essays, quizzes, and/or exams.

Sample Courses

- SOCS-SHU 135 Environment and Society
- SOCS-SHU 136 Human Society and Culture
- SOCS-SHU 150 Introduction to Comparative Politics
- SOCS-SHU 160 Introduction to International Politics
- SOCS-SHU 170 Introduction to Global Health
- SOCS-SHU 133 Urbanization in China
- PSYC-SHU 101 Introduction to Psychology
- ECON-SHU 1 Principles of Macroeconomics
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 3 Microeconomics
- ECON-SHU 251 Economics of Global Business

Methods Courses (100-300 level) - Two Courses

These courses equip students with tools to both critically consume and create advanced social scientific research. Methods courses include introductory courses and more advanced courses which may have one or more prerequisites. Additional methods courses are available at the study away sites, NYU New York, and NYU Abu Dhabi.

Sample Courses

- SOCS-SHU 141 Methods of Social Research
- SOCS-SHU 210 Statistics for the Behavioral and Social Sciences
- SOCS-SHU 248 Fraud
- SOCS-SHU 318 Ethnographic Methods
- SOCS-SHU 350 Empirical Research Practice
- BUSF-SHU 101 Statistics for Business and Economics
- ECON-SHU 213 Causal Inference in the Social Sciences
- ECON-SHU 216 Introduction to Game Theory
- ECON-SHU 301 Econometrics
- MATH-SHU 235 Probability and Statistics

Core Courses (200-300 level) (Prereq: GPS) - Two Courses

The core social science courses are interdisciplinary courses that create unexpected connections between the social science disciplines. Classic Problems courses introduce the history and philosophy of the social scientific approach. New Challenges courses introduce new approaches to current challenges in social science research. Students must take one course from each of the two core categories. Social Science core courses are not widely available at the study away sites, NYU New York, or NYU Abu Dhabi; students should plan to take them in Shanghai.

Classic Problems in Social Science

Sample Courses

- SOCS-SHU 229 Capitalism, Socialism, Communism
- SOCS-SHU 245 Ethnographic Thinking
- OCS-SHU 253 Nature in Social Thought

New Challenges in Social Science

Sample Courses

- SOCS-SHU 234 Image as Evidence
- SOCS-SHU 270 Social Change in Contemporary China
- SOCS-SHU 334 Legal Psychology

Note: Students who complete two Social Science core courses may use additional core courses to complete the focus requirement if appropriate for their approved choice of focus.

Focus Courses (200-400 level, Two must be 300 or 400 level) - Three Courses

Students select a disciplinary or interdisciplinary track in which to focus within the social science major.

Disciplinary tracks include

- Anthropology,
- Psychology,
- Political Science, and
- Sociology.

Interdisciplinary tracks include

- Environmental Studies,
- Global Health,
- International Relations, and
- Political Economy.

Students may also petition to self-design a different interdisciplinary track with prior approval from the Area Head.

Students who wish to focus in Economics are advised to pursue the Economics major instead.

Students must complete 3 courses in one track, at least 2 of which must be at the advanced level (300 or 400 level). Your academic advisor can help you determine which courses count for each track, and at which level, if it is not clear from the course code. Tracks are noted on student transcripts; for students who self-design a track, "Self-Designed" will appear as the track of record on their transcripts. Additional focus courses are widely available at the study away sites, NYU New York, and NYU Abu Dhabi.

Sample Courses

Anthropology

- SOCS-SHU 241 Cultures of Business and Work
- SOCS-SHU 39 Visual Anthropology

Political Science

- CCSF-SHU 123 Contemporary Chinese Political Thought
- GCHN-SHU 241 Chinese Revolutions
- SOCS-SHU 220 Law and Society in the U.S.
- SOCS-SHU 251 Law, Culture, and Politics in China
- SOCS-SHU 272 The U.S. Constitution: Is It Relevant to China?
- SOCS-SHU 339 Comparative Revolutions
- SOCS-SHU 340 Comparative Constitutions

Psychology

- PSYC-SHU 201 Social Psychology
- PSYC-SHU 234 Developmental Psychology
- PSYC-SHU 329 Parenting and Culture
- PSYC-SHU 349 Cultures of Psychology

• PSYC-SHU 352	Psychology of Human Sexuality
Sociology	
• MCC-SHU 9451	Global Media Seminar: China
• SOCS-SHU 360	Urban Sociology
Environmental Studies	
• GCHN-SHU 243	Chinese Environmental Studies
• SOCS-SHU 230	Science in Environmental Policy
• SOCS-SHU 333	Global Environmental Politics
Global Health	
• SOCS-SHU 306	Pestilence: Critical Perspectives in Global Health
• SOCS-SHU 445	Topics in Society, Health, and Medicine
International Relations	
• SOCS-SHU 232	International Law and Institutions
• SOCS-SHU 275	U.S. China Relations
• SOCS-SHU 341	Cross-Strait Relations
Political Economy	
• BPEP-SHU 9042 (GCHN-SHU 342)	Political Economy of East Asia
• ECON-SHU 10	Intermediate Microeconomics
• ECON-SHU 200	Topics: Economics of Gender
• ECON-SHU 202	Intermediate Macroeconomics
• ECON-SHU 215	Economic History
• ECON-SHU 238	History of Modern Economic Growth: Exploring China From a Comparative Perspective
• ECON-SHU 260	International Trade
• LWSO-SHU 491	International Investment Transactions in Developing Countries

Capstone Course - One Course

Students complete a capstone seminar course during one semester of their senior year. As part of the capstone seminar students conduct an independent research project in their track using the methods, theories, and data with which they have become familiar over the course of completing the major. The capstone seminar must be completed in Shanghai.

Social Science Minor

Students who wish to complete a minor in Social Science must complete one of the Methods courses from the list of approved Social Science Methods courses and three additional courses from the list of approved Social Science Foundational, Methods or Focus courses.

Social Science

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Social Science major. It assumes a student begins taking Social Science major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Course	Core Course	English or Chinese
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Spring Semester

Writing as Inquiry	Foundational Course	Core Course	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Foundational Course	Social Science Core	Core class or Chinese
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Spring Semester

Core class, or Chinese	Core Course	Social Science Core	Methods Course
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Year 3

Fall Semester

Core Course	Focus Course	General Elective	General Elective
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Spring Semester

Focus Course	General Elective	Core or General Elective	General Elective
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Year 4

Fall Semester

Methods Course	Focus Course	General Elective	General Elective
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Spring Semester

Capstone Course	Core Course	General Elective	General Elective
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Social Science

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Course	Core Course	English or Chinese
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Spring Semester

Writing as Inquiry	Core Course	Core Course	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Foundational Course	Social Science Core	Core class or Chinese
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Spring Semester

Core class, or Chinese	Core Course	Social Science Core	General Elective
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Year 3

Fall Semester

Foundational Course	Focus Course	Core or General Elective	General Elective
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Spring Semester

Methods Course	Focus Course	Core or General Elective	General Elective
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Year 4

Fall Semester

Focus Course	Methods Course	General Elective	General Elective
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Spring Semester

Capstone Course	Core Course	General Elective	General Elective
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BUSINESS

BUSINESS AND FINANCE

BUSINESS AND MARKETING

BUSINESS AND FINANCE

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:

- a) a deeper understanding of the modern global business environment and its economic structure;
- b) disciplinary skills in economics and statistics;
- c) a focused introduction to accounting, 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.

REQUIREMENTS FOR THE MAJOR

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a 4-credit requirement but note that a 2-credit course with a similar title or content will not by itself meet the requirement of the named course. All students in their senior year are required to take at least one business course which requires a paper and/or a project.

Business Core

- 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
- ECON-SHU 251 Economics of Global Business

Finance Core

- BUSF-SHU 303 Corporate Finance

Business Electives - Choose Two

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 351 Operations Management
- MGMT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing

Finance Electives - Choose Two

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.

- BUSF-SHU 304 Futures and Options
- BUSF-SHU 305 Debt Instruments and Markets
- BUSF-SHU 286 Chinese Financial Markets
- BUSF-SHU 321 Equity Valuation
- BUSF-SHU 229 Behavioral Finance
- BUSF-SHU 244 Portfolio Management

Non-Finance Electives - Choose Two from the Following Areas

- Accounting
- Business Analytics*
- Management
- Marketing**
- Operations
- Information System

China Business Studies - Choose One***

- BUSF-SHU 288 Doing Business with China
- BUSF-SHU 286 Chinese Financial Markets
- BUSF-SHU 200D Business Consulting in China
- MKTG-SHU 288 Strategic Marketing in China

* 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.

** Business and Finance majors may complete a "Marketing track" within the major by taking Introduction to Marketing as one of the Business Electives and choosing two Marketing Elective

courses in fulfilling their two “Non-Finance Elective” requirements.

*** 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.

Business Minor

Required Courses

- BUSF-SHU 101 Statistics for Business and Economics
- BUSF-SHU 250 Principles of Financial Accounting
- ECON-SHU 3 Microeconomics
- ECON-SHU 251 Economics of Global Business (Students can take Introduction to Macroeconomics and Intermediate Macroeconomics to substitute EGB)
- MATH-SHU 121 or 131 Calculus

Choose One Elective Course

Please note that the business minor elective list below is complete, no courses outside of the list will be approved.

- BUSF-SHU 142 Information Technology in Business and 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

Economics majors must complete two of the additional courses listed below to complete the minor within the double counting limits.

- BUSF-SHU 142 Information Technology in Business and 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

BUSINESS AND FINANCE

SAMPLE SCHEDULE

This is just one example of how a student could organize their courses if pursuing a B&F major. It assumes a student begins taking B&F major courses in the first year. Students may propose alternative course sequences to their advisors as well.

Students interested in majoring in Business are recommended to take Calculus 131 in their first semester so that they can complete the Microeconomics, Foundations of Finance, Corporate Finance sequence before studying away and have flexibility in taking upper level electives.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Microeconomics*	Statistics for Business and Economics	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Principles of Financial Accounting	Foundations of Finance	Core, General Elective, or Chinese
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Spring Semester

Core Class	Economics of Global Business	Corporate Finance	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core Class or General Elective	Business Core Elective	Finance Elective or Non-Finance Elective	Core Class or General Elective
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Spring Semester

Core Class or General Elective	Business Core Elective	Finance Elective or Non-Finance Elective	General Elective
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Year 4

Fall Semester

Non-Finance Elective or Finance Elective or China Business Studies	Finance Elective or Non-Finance Elective	General Elective	General Elective
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Spring Semester

Non-Finance Elective or Finance Elective or China Business Studies	General Elective	General Elective	General Elective
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Important Notes:

*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 AND MARKETING

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:

- a) a deeper understanding of the modern global business environment and its economic structure;
- b) disciplinary skills in economics and statistics;
- c) a focused introduction to accounting, 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.

REQUIREMENTS FOR THE MAJOR

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a 4-credit requirement but note that a 2-credit course with a similar title or content will not by itself meet the requirement of the named course. All students in their senior year are required to take at least one business course that fulfills the senior thesis requirement.

Business Core

- 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
- ECON-SHU 251 Economics of Global Business

Marketing Core

- MKTG-SHU 1 Introduction to Marketing

Business Electives - Choose Two

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 303 Corporate Finance
- BUSF-SHU 351 Operations Management
- MGMT-SHU 301 Management and Organizations

Marketing Electives - Choose Two

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.

NOTE: For Class of 2020 and beyond, either MKTG-SHU 9 or MKTG-SHU 2 below must be chosen as one of the two Marketing electives.

- MKTG-SHU 2 Consumer Behavior
- MKTG-SHU 9 Research for Customer Insights
- MKTG-SHU 3 Advertising Management
- MKTG-SHU 57 Digital Marketing
- MKTG-SHU 288 Strategic Marketing in China

Non-Marketing Electives - Choose Two from the Following Areas*

- Accounting
- Business Analytics*
- Management
- Finance**
- Operations
- Information System

China Business Studies - Choose One ***

- BUSF-SHU 288 Doing Business within China
- BUSF-SHU 286 Chinese Financial Markets
- BUSF-SHU 200D Business Consulting in China
- MKTG-SHU 288 Strategic Marketing in China

* 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.

** 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.

*** 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.

BUSINESS AND MARKETING

SAMPLE SCHEDULE

This is just one example of how a student could organize their courses if pursuing a B&M major. It assumes a student begins taking B&M major courses in the first year. Students may propose alternative course sequences to their advisors as well.

Students interested in majoring in Business are recommended to take Calculus 131 in their first semester so that they can complete the Microeconomics, Foundations of Finance, Corporate Finance sequence before studying away and have flexibility in taking upper level electives.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Microeconomics*	Statistics for Business and Economics	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Principles of Financial Accounting	Foundations of Finance or Introduction to Marketing	Core, General Elective, or Chinese
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Spring Semester

Core or General Elective	Economics of Global Business	Foundations of Finance or Introduction to Marketing	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core or General Elective	Business Core Elective	Marketing Elective or Non-Marketing Elective	Core Class or General Elective
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Spring Semester

Marketing Elective or Non-Marketing Elective	Business Core Elective	General Elective	General Elective
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Year 4

Fall Semester

Non-Marketing Elective or Marketing Elective or China Business Studies	General Elective	Non-Marketing Elective or Marketing Elective	General Elective
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Spring Semester

Non-Marketing Elective or Marketing Elective or China Business Studies	General Elective	General Elective	General Elective
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Important Notes:

*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.

COMPUTER SCIENCE AND ENGINEERING

COMPUTER SCIENCE

COMPUTER SYSTEMS ENGINEERING

DATA SCIENCE

ELECTRICAL AND SYSTEMS ENGINEERING

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, 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 information technology products of the future at large and dynamic companies such as Google, Microsoft, Amazon, Apple or within exciting high-tech startups throughout the world. Entrepreneurship skills combined with computer science prowess can help in creating your own high-tech startup, pursuing careers in business or finance that leverage computer science expertise, or going on to do cutting-edge research in a PhD program. Household names such as Bill Gates, Mark Zuckerberg, Larry Page, Melisa Myers, Robin Li, and Kai-Fu Lee all began in computer science.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Major Course

- CSCI-SHU 101 Introduction to Computer Science
(prereq: Placement test or CSCI-SHU 11 Intro to Computer Programming)
- MATH-SHU 235 Probability and Statistics **OR**
MATH-SHU 233 Theory of Probability **OR**
BUSF-SHU 101 Statistics for Business and Economics
- CENG-SHU 202 Computer Architecture
(prereq: CSCI-SHU 11 Intro to Programming or CSCI-SHU 101 Intro to Computer Science) **OR**
CSCI-UA 201 Computer Systems Organization
- CSCI-SHU 210 Data Structures
(prereq: CSCI-SHU 101 Intro to Computer Science, A- or above in CSCI-SHU 11 Intro to Computer Programming)
- CSCI-SHU 215 Operating Systems
(prereq: CSCI-SHU 210 Data Structures; CENG-SHU 202 Computer Architecture or Computer Systems Organization)
- CSCI-SHU 220 Algorithms
(prereq: CSCI-SHU 210 Data Structures and CSCI-SHU 2314 Discrete Math or MATH-SHU 140 Linear Algebra or MATH-SHU 141 Honors Linear Algebra)
- CSCI-SHU 2314 Discrete Mathematics
(co-requisite or prereq: MATH-SHU 121 Calculus)
- CSCI-SHU 420 Senior Project

Computer Science Electives - Choose Four

The courses listed below are not an exhaustive list. In particular, most of the CS elective courses at Tandon, College of Arts and Sciences, or Abu Dhabi can be used as NYU Shanghai CS electives. If you would like to see if a course not listed below can count as an elective, please contact your advisor to have the course reviewed.

- CENG-SHU 201 Digital Logic
- CENG-SHU 350 Embedded Computer Systems
- CENG-SHU 304 Computer Security
- CSCI-SHU 222 Introduction to Game Programming
- CSCI-SHU 235 Information Visualization
- CSCI-SHU 304 Network Security
- CSCI-SHU 308 Computer Networking
- CSCI-SHU 310 UNIX System Programming
- CSCI-SHU 213 Introduction to Databases
- CSCI-SHU 360 Machine Learning
- CSCI-SHU 410 Software Engineering
- INTM-SHU 231 Developing Web
- CSCI-SHU 188 Computer Music
- CSCI-SHU 240 Introduction to Optimization and Mathematical Programming
- CSCI-SHU 378 Introduction to Cryptography
- CSCI-SHU 375 Reinforcement Learning

Computer Science Minor

- CENG-SHU 202 Computer Architecture
- CSCI-SHU 101 Introduction to Computer Science
(prereq: CSCI-SHU 11 Introduction to Computer Programming or placement exam)
- CSCI-SHU 210 Data Structures
- One computer science elective course

COMPUTER SCIENCE

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a CS major. It assumes a student begins taking CS major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester			
Global Perspectives on Society	Core Class (Calculus)	Core Class (Intro to Programming/Computer Science)	English, Chinese, Core, or General Elective
Spring Semester			
Writing as Inquiry	Core Class	Introduction to Computer Science or Data Structures	English, Chinese, Core, or General Elective

Year 2

Fall Semester			
Perspectives on the Humanities	Data Structures or Computer Science Elective	Discrete Mathematics	Core, General Elective, or Chinese
Spring Semester			
Core Class	Computer Science Elective	Computer Architecture	Core, General Elective, or Chinese

Year 3

Fall Semester			
Core or General Elective	Computer Science Elective	Algorithms	General Elective
Spring Semester			
Core or General Elective	Computer Science Elective	Probability and Statistics or alternate statistics course	General Elective

Year 4

Fall Semester			
Operating Systems	Computer Science Elective or General Elective	General Elective	General Elective
Spring Semester			
Senior Project	General Elective	General Elective	General Elective

COMPUTER SCIENCE

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core class	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Core class	Core or General Elective	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Core Class (Intro to Programming/Computer Science)	Discrete Mathematics	Core, General Elective, or Chinese
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Spring Semester

Computer Science Elective	Introduction to Computer Science or Data Structures	Computer Architecture	Core, General Elective, or Chinese
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Year 3

Fall Semester

Computer Science Elective	Data Structures or Computer Science Elective	Probability and Statistics or alternate statistics course	General Elective
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Spring Semester

Algorithms	Computer Science Elective	General Elective	General Elective
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Year 4

Fall Semester

Core class	Computer Science Elective or General Elective	Operating Systems	General Elective
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Spring Semester

Computer Science Elective	Senior Project	General Elective	General Elective
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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.

The Computer 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 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 across the curriculum to develop an understanding of cultural, political, economic, environmental, and public safety considerations. In their courses, Computer Systems Engineering students are involved in the design process and the progression of technological inventions from concept through product development and market introduction.

REQUIREMENTS FOR THE MAJOR

Note: To fulfill the Core Curriculum Science requirement, students must take: 1) PHYS-SHU 91 Foundations of Physics I Honors or PHYS-SHU 11 General Physics I; 2) PHYS-SHU 93 Foundations of Physics II Honors or PHYS-SHU 12 General Physics II ; and 3) PHYS-SHU 94 Physics II Lab.

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Major Courses

- CENG-SHU 201 Digital Logic
- CENG-SHU 202 Computer Architecture
- CENG-SHU 350 Embedded Computer Systems
- CSCI-SHU 101 Introduction to Computer Science
- CSCI-SHU 210 Data Structures
- EENG-SHU 251 Circuits
- EENG-SHU 400 Senior Capstone Design Project (4-credit project taken in the spring semester of senior year)
- MATH-SHU 123 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics *OR*
- MATH-SHU 233 Theory of Probability
- MATH-SHU 265 Linear Algebra and Differential Equations *OR*
- MATH-SHU 140 Linear Algebra *OR*
- MATH-SHU 160 Networks and Dynamics

Electives - Choose Two

The courses listed below are not an exhaustive list. If you would like to see if a course not listed below can count as an elective, please contact your advisor to have the course reviewed.

- CSCI-SHU 215 Operating Systems
- CENG-SHU 302 Compilers
- CENG-SHU 303 Parallel and Distributed Computing
- CENG-SHU 304 Computer Security
- CSCI-SHU 304 Network Security
- CSCI-SHU 308 Computer Networking
- CSCI-SHU 310 UNIX System Programming
- CSCI-SHU 340 Introduction to Databases
- EENG-SHU 3193 Very Large Scale Integration Circuit Design
- EENG-SHU 322 Electronics
- EENG-SHU 375 Robotic Systems

Note: Rapid Prototyping or a similar IMA course is highly recommended as a general elective.

Computer Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CENG-SHU 202 Computer Architecture *OR*
- CENG-SHU 350 Embedded Computer Systems
- CSCI-SHU 11 Introduction to Programming *OR*
- INTM-SHU 101 Interaction Lab
- CSCI-SHU 101 Introduction to Computer Science
- EENG-SHU 251 Circuits

COMPUTER SYSTEMS ENGINEERING

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a CSE major. It assumes a student begins taking CSE major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Intro to Programming/ Computer Science	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Introduction to Computer Science	Multivariable Calculus	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Digital Logic	Physics I	Core, General Elective, or Chinese
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Spring Semester

Intro to Computer Science or Data Structures	Circuits	Physics II & Lab	Core, General Elective, or Chinese
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Year 3

Fall Semester

Data Structures or Core Class	Computer Architecture	Probability and Statistics or Theory of Probability	Computer Systems Engineering Elective
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Spring Semester

Computer Systems Engineering Elective	Linear Algebra and Differential Equations or alternative course	Embedded Computer Systems	General Elective
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Year 4

Fall Semester

General Elective	Core or General Elective	Core or General Elective	General Elective
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Spring Semester

Core or General Elective	Senior Capstone	General Elective	General Elective
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COMPUTER SYSTEMS ENGINEERING

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Physics I	English, Chinese, Core, or General elective
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Spring Semester

Writing as Inquiry	Core or General Elective	Physics II & Lab	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Intro to Programming/ Computer Science	Multivariable Calculus	Core class
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Spring Semester

Circuits	Introduction to Computer Science	Probability and Statistics or Theory of Probability	Core or General Elective
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Year 3

Fall Semester

Embedded Computer Systems	Intro to Computer Science or Data Structures	Linear Algebra and Differential Equations or alternative course	Computer Systems Engineering Elective
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Spring Semester

Digital Logic	Data Structures or Core class	Computer Systems Engineering Elective	General Elective
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Year 4

Fall Semester

General Elective	Core class	General Elective	General Elective or Chinese
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Spring Semester

Senior Design	Computer Architecture	General Elective	General Elective or Chinese
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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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in the global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Foundational Courses

- CSCI-SHU 101 Introduction to Computer Science
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability

Required Major Courses

Programming & Computer Science

- CSCI-SHU 210 Data Structures

Mathematics

- MATH-SHU 123 Multivariable Calculus
- MATH-SHU 140 Linear Algebra **OR**
- MATH-SHU 265 Linear Algebra and Differential Equations **OR**
- MATH-SHU 141 Honors Linear Algebra I

Data Analysis

- CSCI-SHU 360 Machine Learning
- ECON-SHU 301 Econometrics **OR**
- MATH-SHU 234 The Mathematics of Statistics and Data Science Part 1
- CSCI-SHU235 Information Visualization **OR**
- CSCI-SHU 220 Algorithms **OR**
- CSCI-SHU 240 Introduction to Optimization and Mathematical Programming

Data Management

- CSCI-SHU 213 Databases

Concentration Courses

- Domain-area courses
- DATS-SHU 400 Data Science Capstone

Note: Students who are strong in mathematics are encouraged to take Analysis I and Analysis II (in place of Multivariable Calculus), Honors Linear Algebra I (in place of Linear Algebra), and Theory of Probability.

Concentration Options

Domain-Area Courses for Concentration in Finance

- DATS-SHU 400 Data Science Capstone (Not Required for students who are enrolled in 6-credit Business and Econ Honors Program)
 - ECON-SHU 3 Microeconomics
 - BUSF-SHU 250 Principles of Financial Accounting
 - BUSF-SHU 202 Foundations of Finance
 - BUSF-SHU 303 Corporate Finance
- 14 courses total

Domain-Area Courses for Concentration in Marketing

- DATS-SHU 400 Data Science Capstone (Not Required for students who are enrolled in 6-credit Business and Econ Honors Program)
 - ECON-SHU 3 Microeconomics
 - BUSF-SHU 250 Principles of Financial Accounting
 - BUSF-SHU 202 Foundations of Finance
 - MKTG-SHU 1 Introduction to Marketing
- 14 courses total

Domain-Area Courses for Concentration in Economics

- DATS-SHU 400 Data Science Capstone (Not Required for students who are enrolled in 6-credit Business and Econ Honors Program)
 - ECON-SHU 3 Microeconomics
 - ECON-SHU 1 Macroeconomics
- 12 courses total.

Domain-Area Courses for Concentration in Genomics

- DATS-SHU 400 Data Science Capstone
 - BIOL-SHU 21 Foundations of Biology 1 and lab
 - BIOL-SHU 22 Foundations of Biology 2 and lab
 - BIOL-SHU 261 Bioinformatics
- Foundations of Biology 1 can count as core curriculum course.
– 12 courses total.

Domain-Area Courses for Concentration in Computer Science

- DATS-SHU 400 Data Science Capstone
- Two courses from:
- CENG-SHU 202 Computer Architecture **OR**
 - CSCI-UA 201 Computer Systems Organization
 - CSCI-SHU 215 Operating Systems
 - CSCI-SHU 2314 Discrete Mathematics
 - CS-UY 2413/CSCI-UA 310/CSCI-SHU 220 Algorithms
- 12 courses total.

Domain-Area Courses for Concentration in Mathematics

- DATS-SHU 400 Data Science Capstone
- Two courses from:
- MATH-SHU 201 Honors Calculus
 - MATH-SHU 329 Honors Analysis II
 - MATH-SHU 233 Theory of Probability
 - MATH-SHU 234 The Mathematics of Statistics and Data Science, Part 1--Part 2
 - MATH-SHU 142 Honors Linear Algebra 2
- 12 courses total.

Domain-Area Courses for Concentration in Artificial Intelligence

- DATS-SHU 400 Data Science Capstone
- Two courses from:
- CSCI-UA 480 Natural Language Processing
 - CSCI-SHU 372/CS-UY 4613 Artificial Intelligence
 - CSCI-GA 2566 Foundations of Machine Learning
 - DS-GA 1008/CSCI-GA 2572 Deep Learning
 - DS-GA 1012 Natural Language Understanding and Computational Semantics
 - DS-GA 1013 Mathematical Tools for Data Science
 - CSCI-SHU 240 Introduction to Optimization and Mathematical Programming
 - CSCI-SHU 235 Information Visualization
 - CS-UY 2413/CSCI-UA 310/CSCI-SHU 220 Algorithms
 - CSCI-SHU 375 Reinforcement Learning
- 12 courses total.

Domain-Area Courses for Concentration in Political Science

- DATS-SHU 400 Data Science Capstone
 - SOCS-SHU 150 Introduction to Comparative Politics
 - SOCS-SHU 160 Introduction to International Politics
- 12 courses total.

Domain-Area Courses for Concentration in Psychology

- DATS-SHU 400 Data Science Capstone

Two Required Courses:

- SOCS-SHU 350 Empirical Research Practice
- SOCS-SHU 101 Introduction to Psychology

One course from:

- PSYC-SHU 234 Developmental Psychology
- PSYCH-UA 25 Cognitive Neuroscience
- PSYCH-UA 32 Social Psychology
- PSYCH-UA 30 Personality
- PSYCH-SHU 352 Psychology of Human Sexuality* **OR**
- PSYCH-UA 300 Human Sexuality
- SOCS-SHU 334 Legal Psychology

– 13 courses total.

Data Science Minor

- CSCI-SHU 101 Introduction to Computer Science
(prereq: CSCI-SHU 11 Intro to Programming or placement exam)
- CSCI-SHU 210 Data Structures
- CSCI-SHU 360 Machine Learning
- ECON-SHU 301 Econometrics **OR**
- MATH-SHU 234 The Mathematics of Statistics and Data Science
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability

DATA SCIENCE

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a DS major. It assumes a student begins taking DS major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class (Intro to Programming/Computer Science)	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Probability and Statistics or alternate courses	Intro to Computer Science or Data Structures	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Data Structures or Domain-area class	Multivariable Calculus	Core, General Elective, or Chinese
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Spring Semester

Linear Algebra	Machine Learning	Econometrics or The Mathematics of Statistics and Data Science	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core or General Elective	Databases	Domain-area Class	General Elective
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Spring Semester

Core or General Elective	Core Class	Domain-area Class or General Elective	General Elective
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Year 4

Fall Semester

Information Visualization	General Elective	General Elective	General Elective
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Spring Semester

Senior Project	General Elective	General Elective	General Elective
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DATA SCIENCE

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core class	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Core class	Core or General Elective	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Core Class (Intro to Programming/Computer Science)	Multivariable Calculus	Core, General Elective, or Chinese
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Spring Semester

Linear Algebra	Intro to Computer Science or Data Structures	Probability and Statistics or alternate courses,	Core, General Elective, or Chinese
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Year 3

Fall Semester

Econometrics OR The Mathematics of Statistics and Data Science	Data Structures or Domain-area Class	Databases	General Elective
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Spring Semester

Core class	Machine Learning	Domain-area class	General Elective
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Year 4

Fall Semester

Information Visualization	General Elective	Domain-area class or General Elective	General Elective
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Spring Semester

Senior Project	General Elective	General Elective	General Elective
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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.

ELECTRICAL AND SYSTEMS ENGINEERING

REQUIREMENTS FOR THE MAJOR

Note: To fulfill the Core Curriculum Science requirement, students must take: 1) PHYS-SHU 91 Foundations of Physics I Honors or PHYS-SHU 11 General Physics I; 2) PHYS-SHU 93 Foundations of Physics II Honors or PHYS-SHU 12 General Physics II; and 3) PHYS-SHU 94 Physics II Lab

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

GPA minimum requirement

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.

Required Courses

- CENG-SHU 201 Digital Logic
- CSCI-SHU 11 Introduction to Programming *OR*
- CSCI-SHU 101 Introduction to Computer Science
- EENG-SHU 2054 Signals and Systems
- EENG-SHU 251 Circuits
- EENG-SHU 304 Electromagnetic Fields and Waves
- EENG-SHU 322 Electronics
- EENG-SHU 400 Senior Capstone Design Project (4-credit project taken in the spring semester of senior year)
- MATH-SHU 123 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics *OR*
- MATH-SHU 233 Theory of Probability
- MATH-SHU 265 Linear Algebra and Differential Equations *OR*
- MATH-SHU 140 Linear Algebra *OR*
- MATH-SHU 160 Networks and Dynamics

Electives

Choose 2 from these 4 courses:

- EENG-SHU 356 Communication Systems
- EENG-SHU 364 Feedback Control
- EE-UY 112/EE-UY 3124 Fundamentals of Electronics II (offered in New York)
- EE-UY 3824 Electric Energy Conversion Systems (offered in New York)

Choose 2 more from the following list:

- CENG-SHU 350 Embedded Computer Systems
- CENG-SHU 351 Computer Networks
- EENG-SHU 306 Instrumentation, Sensors and Actuators
- EENG-SHU 3193 Very Large Scale Integrated (VLSI) Circuit Design
- EENG-SHU 355 Digital Signal Processing
- EENG-SHU 356 Communication Systems
- EENG-SHU 375 Robotic Systems

Note: Rapid Prototyping or a similar IMA course is highly recommended as a general elective.

Electrical and Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CSCI-SHU 11 Introduction to Programming *OR*
- INTM-SHU 101 Interaction Lab
- EENG-SHU 251 Circuits
- Electrical and Systems Engineering Elective

ELECTRICAL AND SYSTEMS ENGINEERING

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a ESE major. It assumes a student begins taking ESE major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Intro to Programming/ Computer Science	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Multivariable Calculus	Linear Algebra and Differential Equations or alternate course	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Physics I	Digital Logic	Core, General Elective, or Chinese
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Spring Semester

Core or General Elective	Physics II & Lab	Circuits	Core, General Elective, or Chinese
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Year 3 (These classes are only offered in NY or AD)

Fall Semester

Core or General Elective	Electronics	Electromagnetic Fields and Waves	Signals and Systems
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Spring Semester

Electrical and Systems Engineering Elective			
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Year 4

Fall Semester

Probability and Statistics or Theory of Probability	General Elective	General Elective	General Elective
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Spring Semester

Senior Capstone Design Project	General Elective	General Elective	General Elective
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ELECTRICAL AND SYSTEMS ENGINEERING

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Physics I	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Multivariable Calculus	Physics II & Lab	Intro to Programming/Computer Science	2-credit English or Chinese (if available)
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Year 2

Fall Semester

Perspectives on the Humanities	Digital Logic	Core Class	Core Class
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Spring Semester

Core or General Elective	Circuits	Linear Algebra and Differential Equations or alternate course	Core or General Elective
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Year 3

Fall Semester

Electronics	Signals and Systems	Electromagnetic Fields and Waves	Electrical and Systems Engineering Elective
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Spring Semester

Probability and Statistics or Theory of Probability	Electrical and Systems Engineering Elective	Electrical and Systems Engineering Elective	Electrical and Systems Engineering Elective
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Year 4

Fall Semester

General Elective	General Elective	General Elective or Chinese	General Elective
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Spring Semester

Senior Capstone Design Project	General Elective or Chinese	General Elective	General Elective
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SELF-
DESIGNED
HONORS
MAJOR

SELF-DESIGNED HONORS

MAJOR

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 Assistant 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. By spring of the sophomore year, the plan of study must be submitted to and approved by the Academic Standards Committee.

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.

REQUIREMENTS FOR MINORS

The courses required for NYU Shanghai Minors are:

Biology Minor

A. Molecular and Cell Biology Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 Foundations of Biology Lab
- BIOL-SHU 30 (Formerly 264) Genetics **OR**
- BIOL-SHU 263 Developmental Biology
- BIOL-UA 36 At the Bench: Applied Molecular Biology DNA Techniques **OR**
- BIOL-UA 37 At the Bench: Applied Cell Biology **OR**
One approved class to count towards this minor

B. Genomics and Bioinformatics Minor

- 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
- BIOL-SHU 267 Microbiology and Microbial Genomics **OR**
- BIOL-GA 1128 Systems Biology **OR**
- BIOL-UA 58 Evolution

Business Minor

Required Courses

- BUSF-SHU 101 Statistics for Business and Economics
- BUSF-SHU 250 Principles of Financial Accounting
- ECON-SHU 3 Microeconomics
- ECON-SHU 251 Economics of Global Business (Students can take Intro to Macro and Intermediate Macro to substitute EGB)
- MATH-SHU 121 or 131 Calculus

Choose One Elective Course

Please note that the business minor elective list below is complete, no courses outside of the list will be approved.

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 202 Foundations of Finance
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 303 Corporate Finance
- BUSF-SHU 351 Competitive Advantage from Operations
- MGMT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing

Economics majors must complete two of the additional courses listed below to complete the minor within the double counting limits.

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 202 Foundations of Finance
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 351 Competitive Advantage from Operations
- MGMT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing

Chemistry Minor

- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory
- CHEM-SHU 225 Organic Chemistry I + Organic Chemistry I Lab
- CHEM-SHU 226 Organic Chemistry II + Organic Chemistry II Lab

Chinese Minor

16 credits of Chinese language above Elementary II are required to complete the minor. Only 4 credits of those 16 can double-count with another degree requirement. Elementary I and II do not count toward fulfilling the requirements. Typical plan of study: Intermediate I, Intermediate II, Advanced I, and Advanced II.

A student who passes out of Intermediate I&II or Advanced I&II will have to replace the course(s) they placed out of with other Chinese language classes higher than the level(s) they placed out of. Only 4 credits of those 16 can double-count with another major or minor degree requirement.

Example 1:

GCS major who doesn't place out of Intermediate I must do the following for the Chinese minor:

- Intermediate I
- Intermediate II
- Advanced I and Advanced II (but can only count one towards the minor, because they are also required for GCS major.)
- Other course higher than Advanced II

Example 2:

Students who placed out of Advanced Chinese I and is taking Advanced Chinese II now are aiming for a Chinese minor. They can get a Chinese minor by taking:

- Advanced Chinese II (double counting one course between the major and the minor).
- 3 additional Chinese courses, such as Advanced High Business Chinese, Readings in Chinese Culture I, and Readings in Chinese Culture II.

Computer Science Minor

- CENG-SHU 202 Computer Architecture
- CSCI-SHU 101 Introduction to Computer Science (prereq: CSCI-SHU 11 Introduction to Computer Programming or placement exam)
- CSCI-SHU 210 Data Structures
- One computer science elective course

Computer Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CENG-SHU 202 Computer Architecture **OR**
- CENG-SHU 350 Embedded Computer Systems
- CSCI-SHU 11 Introduction to Programming **OR**
- INTM-SHU 101 Interaction Lab
- CSCI-SHU 101 Introduction to Computer Science
- EENG-SHU 251 Circuits

Creative Writing Minor

- WRIT-SHU 159 Introduction to Creative Writing (a prerequisite for the intermediate and advanced craft courses).
- Two intermediate/advanced craft courses
- An additional intermediate/advanced craft course or a designated elective

Data Science Minor

- CSCI-SHU 101 Introduction to Computer Science (prereq: CSCI-SHU 11 Intro to Programming or placement exam)

- CSCI-SHU 210 Data Structures
- CSCI-SHU 360 Machine Learning
- ECON-SHU 301 Econometrics
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability **OR**
- BUSF-SHU 101 Statistics for Business and Economics **OR**
- BIOL-SHU 42 Biostatistics

Economics Minor

- BUSF-SHU 101 Statistics for Business and Economics **OR**
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability **OR**
- MATH-SHU 234 Mathematical Statistics
- ECON-SHU 1 Principles of Macroeconomics **OR**
- ECON-SHU 251 Economics of Global Business
- ECON-SHU 3 Microeconomics **OR**
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 202 Intermediate Macroeconomics **OR**
- ECON-SHU 10 Intermediate Microeconomics
- Two additional 4-credit courses from the Economics elective list

Electrical and Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CSCI-SHU 11 Introduction to Programming **OR**
- INTM-SHU 101 Interaction Lab
- EENG-SHU 251 Circuits
- Electrical and Systems Engineering Elective

Global China Studies minor

Four classes from the required and elective list of Global China Studies courses, of which at least one must be from the required list. Students may take up to two advanced or post-advanced language courses in fulfillment of this minor.

History Minor

Four classes from the required and elective list of Humanities major History courses.

Humanities Minor

Four classes from the required and elective list of Humanities major courses.

Interactive Media Arts Minor

- INTM-SHU 101 Interaction Lab
- INTM-SHU 120 Communications Lab
- 7-8 credits from the Interactive Media Arts Elective List

Literature Minor

Four classes from the required and elective list of Humanities major Literature courses.

Mathematics Minor

Four 4-credit mathematics courses at the Calculus level or higher. Of current math offerings, Mathematics for Economists and Mathematical Functions do not count for the minor.

Neural Science Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- NEUR-SHU 201 Introduction to Neural Science
- NEUR-SHU 251 Behavioral and Integrative Neuroscience **OR**

Philosophy minor

Four classes from the required and elective list of Humanities major Philosophy courses.

Physics Minor

- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 91 Foundations of Physics I Honors **OR**
CCSC-SHU 50 Physics I
- PHYS-SHU 93 Foundations of Physics II Honors **OR**
CCSC-SHU 51 Physics II
- PHYS-SHU 94 Physics II Laboratory
- Two Physics Elective Courses (Must bring total credits of the minor courses to 16 or more)

Social Science Minor

Students who wish to complete a minor in Social Science must complete one of the Methods courses from the list of approved Social Science Methods courses and three additional courses from the list of approved Social Science courses.

Global Network Minor

Students can complete a Global Network (GN) Minor using classes from one or more of the eleven Study Away Sites in NYU's global network. This option enables capable and highly motivated students to pursue a plan of study that brings together courses from more than one NYU department or program taught at a study away site.

These minors serve students who can realize their interdisciplinary goals within the NYU's global network drawing on courses from any of the study away sites. Even if all of the classes are from a single department in one of the other degree-granting campuses or is identical to a minor offered on one of those campuses, the GN minor is an NYU Shanghai minor and will be identified as such on the student's transcript. The other requirements and limitations for these minors are identical with the standard ones identified above for all minors.

GN minors require at least 2 courses from global sites and may be completed using courses taken at the associated study away site or degree-granting campuses. Courses and therefore minor availability may vary by semester, students should see each academic center's website for specific classes, and plan with their academic advisor how to complete the minor. Pursuing a GN minor does not guarantee acceptance to study at a study away site. A list of approved global network minors is available on the NYU Shanghai study away website. The courses that have been reviewed to count towards GN minors are also posted to the NYU Shanghai study away website. As students inquire about new courses, they are reviewed and added to the sheet.

Cross School Minor

Cross school minors offered by NYU Schools are available to NYU Shanghai students as listed on the NYU Cross-School Minors website. Students who successfully complete any of those Minors will have them identified by name as a Minor on the student transcript.

{ Part VII }

Course Descriptions

ART-SHU 105

Performance Art

In this course we will survey histories of performance as art from traditions ancient to modern through physical work, playwriting, and study of design. We'll work through repertoires and theatrical traditions of the Ancient Greeks alongside movements like Futurism, Dada, Surrealism, and the Bauhaus School. Using Kate Tempest's play *Brand New Ancients* with elements of spoken poetry and hip hop, we will workshop a new adaptation using students' original text and dramaturgy, ending the semester with a performance of our work. From Tempest's play: "The stories are here, the stories are you, and your fear and your hope is as old as the language of smoke, the language of blood, the language of languishing love."

ART-SHU 210

Introduction to Studio Art - Chinese Traditional Methods in Contemporary Art

This course will be an introduction to studio art for students who want to learn traditional Chinese art forms with contemporary expression, to traverse both cultural and temporal barriers of visual arts. These include calligraphy and ink painting as seen from a modern perspective. Students will examine the content of artwork, including ideas in contemporary and traditional art, both Chinese and international, and build various skills to translate ideas into reality. The course includes a study of ancient Chinese paintings, drawings of still-lives, as well as visits to local artists, galleries, and museums. 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

ART-SHU 211

Foundations in Painting

It is an exciting time in contemporary painting. The rules have changed. Artists are making paintings no longer limited by a particular medium or set of mediums. In the "Now," painting is made up of non-hierarchical inclusions of materials, many of which are non-art-mediums adopted for studio use, and various approaches that mirror the complexities and experiences of our daily lives. At the forefront of this non-hierarchical, cross-disciplinary attitude are artists such as Shahzia Sikander, Charline von Heyl, Mark Bradford, Os Gemeos, and Beatriz Mihazes. Students will learn or revisit foundational techniques, modes, forms, and applications – composition, color, form, space, surface, and texture using materials such as acrylic and oil paint, various mediums, ink, collage and transfer techniques, and reductive methods. Further, they will explore the implications and uses of materiality as a subject as well as a tool or medium. Students will also engage in selected readings to ground their visual pursuits in an historical and classical understanding as well as a theoretical, critical and contemporary context. Students will become proficient in the fundamental skills needed to write an artist statement, art critique and a work-in-progress conceptual outline.

Prerequisite: None

ART-SHU 222

Site and Situation: Social Space and Public Art

What is the relationship between "Site" and "Situation"? How do they influence and respond to one another in the context of social spaces? How do economic, political and global entities use social space as means of constructing collective identity and behavioural normativity? How can artists respond to these situations by making their own moves to interpret and re-situate site? Social spaces are designed and curated environments that reflect the attitudes and actions of community, manage human behaviours, and offer places of collective expression. They serve as a reflection of how we see and how we want to see the world and ourselves. Because they are sites which are closely tied to individual and collective identities, they are historically, also, sites which are managed by governing forces to foster narratives of collective identity. Public art is one aspect of how social spaces are defined and curated. However, what is "public art"? How is it interpreted and practised? How does public art situate site? How do curated social spaces provoke its inhabitants to reflect on their relationship to the city? And, how does this positioning situate our experiences of "Site"? Chinese artists are part of the global movement towards gaining more self-authorship and agency regarding the interpretation of sites. There is a growing focus on shifting emphasis to the concerns of local inhabitants, human interaction, and experiential needs – putting into question the historically monument-based approach to public art. Students will be introduced to those artists and their works in a global context. Prerequisites: None

ART-SHU 225A

Contemporary Dance

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. This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 225B

(Contemporary) Dance

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. This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 230

Ballet

This does not fulfill any major requirement. This course is an introduction to the fundamentals of classical ballet technique. A thorough warm-up will be given in each class to improve strength, balance, and coordination through various exercises. This class begins with barre, develops into stretch, adagio, and finishes with allegro and reverence. Throughout the semester, three major movement combinations will be taught and the student will be expected to demonstrate their mastery of those combinations. No prior dance experience is necessary. Prerequisites: None

ART-SHU 239.2

Choreography & Performance

This does not fulfill any major requirement. The purpose of this 2-credit course is to enable the student to gain an appreciation and knowledge of team building skills, collaboration, and the creative process through movement exploration, choreography and performance. Through individual and collective participation in bodywork, contact improvisation, developing phrases, and playing an active role in the final performance, students are physically and conceptually challenged and informed. Through better understanding space, control, aesthetics, alignment, and musicality as well as practicing learning strategies within a duet/group context, the student gains an appreciation not only for self and collective discovery, but also for the creative process underlining and shaping personal, artistic expression. All levels are welcome. No previous experience is required.

This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 239.4

Choreography & Performance

This does not fulfill any major requirement. The purpose of this 2-credit course is to enable the student to gain an appreciation and knowledge of team building skills, collaboration, and the creative process through movement exploration, choreography and performance. Through individual and collective participation in bodywork, contact improvisation, developing phrases, and playing an active role in the final performance, students are physically and conceptually challenged and informed. Through better understanding space, control, aesthetics, alignment, and musicality as well as practicing learning strategies within a duet/group context, the student gains an appreciation not only for self and collective discovery, but also for the creative process underlining and shaping personal, artistic expression. All levels are welcome. No previous experience is required.

This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 242

Minority and Folk Dance (Southern China)

This course provides an introduction to minority and ethnic folk dances in southern China. It explores the forms of these dances as well as the culture, religion, history, and natural environments influencing the creation of these dance forms. The Spring 2020 semester the focus will be on Tibetan 藏族, Dai 傣族 or Wa 佤族 minorities. Students learn the legends, stories, and myths surrounding each dance form as well as the distinct movement beats, rhythms, and traditional combinations.

This course counts towards the Dance Minor.

ART-SHU 243

Minority and Folk Dance (Northern China)

This course provides an introduction to minority and ethnic folk dances in northern China It explores the forms of these dances as well as the culture, religion, history, and natural environments influencing the creation of these dance forms. The Fall 2019 semester the focus will be on Yianbian Korean 朝鲜族, Uighur 维吾尔族 or Mongolian 蒙古族 minorities. Students learn the legends, stories, and myths surrounding each dance form as well as the distinct movement beats, rhythms, and traditional combinations. This course counts towards the Dance Minor.

ART-SHU 250

Visual Culture and Social Art Practice: Collaborations and Community Interactions

What role does art play in our contemporary society? Who is it for, what does it represent, and why? How can we, as visual culture participants and producers, ensure that we are relevant, engaged, engaging, and inclusive? How does locality and culture play a part in how we think about and present what we are making? The main purpose of this course is to integrate students into Shanghai through outreach and collaborative projects in order to give them the opportunity to interact artistically and directly with Chinese communities as well as consider themselves in relation to those communities. They will develop and realize projects specific to various communities in Shanghai. Students will learn to incorporate theory, studio, and social engagement practices (collaborative, workshopping, and interactive skills) in their understanding and making of art. They will consider notions of visibility, viewership, and authorship, in a global context, joining the dialogue regarding art practice shifting towards engaging communities

outside of the specific art sphere. In the visual arts, conscious engagement with communities is both a way to open up new considerations and approaches to visual culture language as well as make spaces for autonomy and agency. Class fees: \$25.00 per student. Prerequisites: None

ART-SHU 251

Typography in the Urban Environment

In our ever-expanding world, we are increasingly confronted with an abundance of textual and visual messages. The digital age and globalization have provided us with the ability to draw from cultures and aesthetics with a speed and flexibility previously unheard of. The overload of messaging is thus styled in texts, images, and attitudes influenced by this influx of multiple cultural origins - resulting in vast numbers of new typefaces. There are now over 150,000 typefaces, and growing every day. China was on the vanguard of printed matter (through carved seals and woodcuts) and establishing text as art (through poetry, calligraphy, and image-based scrolls), thus it has a long history of typeface styles, as well as printing and dissemination practices. Using this as a starting point, students will develop an understanding of typography and the uses of visual culture (in textual and image forms) in both the public and art spheres. Although typography is an element that we encounter every day in abundance, we often do not actually "see" or consider it. The methodology and practices of typographic usage coupled with images compose complex layers of meaning. As one of the leading factors in shaping visual culture, understanding the underlying messages embedded in signage - its cultural, economic, social, and political implications - provides interesting insight into how to interpret the messaging in our immediate surroundings. Prerequisites: None

ART-SHU 255

Printmaking in an Expanded Field

Printmaking in China has a long and varied history. Originally, stamps and official seals were carved out of stone, jade, and other hard materials. Eventually, softer wood was used as it was vastly easier to carve and more economical, thus establishing a tradition of Chinese relief printing on a vast scale. Despite originating in China, wood block prints are more often associated with Japan due, in part, to preferences held in the "eye of the beholder" rather than for any innate technical or artistic merit. In this comparative course students will consider complex issues such as appropriation versus translation; authenticity; and artistic cultural identity and ownership as they relate to art making and exhibition practices around the globe. Students will learn techniques, modes, forms, and applications of printmaking - monotypes (transfers and rubbings), relief prints (stamps and wood cuts), intaglio (dry point engraving), stencils, and mixed media technique - in a conceptual framework of global visual culture. Course fees: \$70.00 per student. Prerequisite: None.

ART-SHU 274

Woodblock Printmaking: Practice and Theory

Students will be introduced to woodblock printmaking techniques in conjunction with its history, starting with the origins - relief stone rubbings and wood block printmaking in China. From this starting point, they will trace the global history of relief printing as it crossed China's borders into Japan and elsewhere in Asia and Southeast Asia and, finally, the West. Students will become familiar with this history and technique through practical application as well as an historical and theoretical lens. In order to contextualize the forms, functions and representations therein, students will consider contemporary Chinese artists working with woodblock prints in relation to artists from elsewhere around the globe. Students will learn foundational techniques, modes, forms, and applications of relief prints (stamps and woodcuts) and, through this hands-on experience, gain a deeper understanding and appreciation of the art form. There will be gallery and museum outings in order to expose students to both historical and contemporary Chinese prints. Prerequisite: None.

ART-SHU 275

Mark Making: From Basic Drawing Skills to Contemporary Approaches to Drawing

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 (This course is reserved for Shanghai students).

ART-SHU 301

Introduction to Photography I

Introduction 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 museum 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. Work by artists are examined to provide the framework and vocabulary to articulate the students' own photographic investigations.

ART-SHU 306

Moving Images

Moving Images 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 3-6 hours of course work per week outside of class. Prerequisites: None.

ART-SHU 629

The Villain

What makes a villain and who decides? In this course, we will track the evolution of the villain across the globe and through the ages, exploring representations of evil in myth, literature, and art history, as well as on the stage and screen. We'll identify the origins of iconic imagery and characteristics, interrogate the scapegoating of certain characters or populations, and question our own perceptions of villainy. Our material will include sacred text, Shakespeare, Japanese Noh, political documents, psychological studies, horror films of early cinema, and relevant works of today from Disney to Black Panther. Assignments will take the form of textual analysis and research, as well as artistic responses in the form of performance, music, photography, and video, all seeking to understand new perspectives on those we label "villain." Prerequisites: None

ART-SHU 1010

Making Theatre

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. Prerequisites: None.

ART-SHU 1910

Projects in Studio Art - Chinese Traditional Methods in Contemporary Art

This course is designed for studio artists who want to create a succinct body of artwork while studying in Shanghai. Students will create contemporary artworks using traditional Chinese art forms to traverse both cultural and temporal barriers of expression, creating a unique integrated style of work. Students of traditional Western methods of art making, including drawing, painting, sculpture, and printmaking, are going to be asked to work out of traditional Chinese art methods, including calligraphy and ink painting. Also, students will have the opportunity to combine Western and Chinese methods of art making. Students will examine the content of artwork, including ideas in contemporary and traditional art, both Chinese and international, and build various skills to translate ideas into reality. The course includes a study of ancient Chinese paintings, drawings of still-lives and live models, as well as visits to local artists, galleries, and museums. Class time will be devoted to individual projects and critiques, lectures, and group discussions. As a final project, students will integrate their living experiences in Shanghai with personal experience and/or the societal landscape, to create a substantial body of artwork for a group exhibition. Prerequisite: Instructor Consent Required.

ART-SHU 9077

Contemporary Art & New Media

Over the past three decades, the contemporary art scene in China has expanded fast. The massive political, economic, and social changes the country has undergone since the end of the Cultural Revolution in 1976 have dramatically altered its cultural landscape. The course will survey the main development areas in Chinese contemporary art. Dedicated to responding to the new textures of China's metropolitan culture, it will look at the relationship between visual arts, new media, architecture and performance in the mega-city of Shanghai, often regarded as the cradle of Chinese modernity. The class will be complemented by guest lectures and visits to public museums, galleries and artists' studios in and around Shanghai. Students will have the opportunity to meet leading figures from the art world in China as well as the international art community, including artists, museum directors, curators, art critics, and art dealers.

MUS-SHU 56

Piano (Private Lessons) - 2 credits

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. Prerequisite: 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).

MUS-SHU 56.2

Piano (Private Lessons) - 4 credits

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. Prerequisite: 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).

MUS-SHU 59

Group Piano for Beginners

For Non-Majors.

MUS-SHU 60

Group Piano for Intermediate Beginners

For Non-Majors.

MUS-SHU 61

Group Piano for Advanced

For Non-Majors.

MUS-SHU 102

Group Erhu: Beginner

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 103

Bamboo Flute: Beginner

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 105

Guqin: Beginner

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 202

Erhu Intermediate Level

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 203

Bamboo Flute Intermediate Level

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 205

Group Guqin Intermediate

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 219

Music of Shanghai

Centered around attending a variety of musical performances in Shanghai, the course consists of lectures, readings, listening and discussions. Students work on refining critical listening skills and develop a greater knowledge of music as an integral part of society and in particular, Shanghai's past and present artistic community. Genres include: jazz, classical, indigenous, fusion, theatre music and contemporary pop/rock. This course satisfies 2 credits of the Chinese Arts Core Curriculum. Prerequisites: None.

MUS-SHU 225

The Structure of Music

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. Prior musical study is recommended, but not necessary.

MUS-SHU 1085

Choral Arts: NYU Shanghai Chorale

For Non-majors. The NYU Shanghai Chorale will explore all types of choral music - pop, jazz, classical etc., with

a focus on singing and musicianship skills in a fun environment. Those taking the course 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.

MUS-SHU 1179.1

Chamber Ensemble: Orchestra

MUS-SHU 1511

Vocal Training: Group - 2 credits

This course introduces the practice of singing 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 objective of this course is to improve students' confidence in singing, and most importantly, having fun singing and performing together. Students may also have one or two field trip opportunities to watch performances in Shanghai.

MUS-SHU 1512

Private Voice Instruction - 2 credit

This does not fulfill any major requirement. 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 storytelling. Students may also have one or two field trip opportunities to watch performances in Shanghai. Prior training/permission of instructor required; contact jw2453@nyu.edu

MUS-SHU 1514

Private Voice Instruction - 4 credit

This does not fulfill any major requirement. 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 storytelling. Prior training/permission of instructor required; contact jw2453@nyu.edu

Biology

BIOL-SHU 1

Introduction to Biology

This course introduces about the principles and technologies of modern biology. It covers the cellular and molecular structure of organisms, how life works on energy and metabolism basis, how life reproduces on cell division and inheritance with 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.

BIOL-SHU 3

Explore the Cell: From Gene to Protein

The laboratory course will teach students the skills needed in molecular biology research such as the hands-on techniques of sterile technique, genetic transformation, gene expression, gel electrophoresis, and nucleic acid quantification. The lab course will also emphasize literature search, scientific writing, lab notes taking, power point presentations, data analysis, and best practices in lab safety. The ED Biology 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 or discussion of the material. In the beginning of the class, there will be a 15 minutes presentation session from the students. The students can choose any topic of interest from classical to modern biology, from everyday life to cutting edge breakthroughs, to achieve an overview comprehension of biological science and classroom diversity.

BIOL-SHU 5

Nutrition, Fitness and Health

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.

BIOL-SHU 21

Foundations of Biology I

BIOL-SHU 22

Foundations of Biology II

Our objective is to provide a concrete foundation in the principles of modern molecular and cellular biology. These concepts form almost all basis for the great discoveries now being made in biology and the medical science. In this course, we will discuss how proteins and biomolecules are sorted in the cell, how cells maintain structural framework, how cells multiply, how cells regulate transport cross membranes, how cells interact with environment, and how cancer cells arise. In addition, we will discuss about principle experimental methods of modern cell biology. An emphasis is place on understanding molecular mechanism of essential process, but not memorizing details. In recitations, students will discuss modern research papers related to the topics that are covered in lecture. Students should be able to understand the biology of the paper and criticize its potential pitfall. Prerequisite: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus AND BIOL-SHU 21 Foundations of Biology I

BIOL-SHU 26 (formerly 263)

Developmental Biology

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-250, or Foundations of Science III Biology, or Foundations of Biology II.

BIOL-SHU 30

Genetics

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-22.

BIOL-SHU 31

Genetics Laboratory

Pre-req or co-req: BIOL-SH 30 Genetics or BIOL-UA 30 Genetics

BIOL-SHU 123

FoS Biology Laboratory

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. 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. Prerequisite: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus AND BIOL-SHU 21 Foundations of Biology I

BIOL-SHU 200

Molecular Biology of Cancer

The course is designed to provide comprehensive molecular and cellular understanding of tumorigenesis and modern cancer research. Various topics in cancer biology will be discussed in the course such as histopathological progression of cancer, its underlying molecular mechanism, and rational therapeutics. Thus, students will learn how multicellular eukaryotic organisms evolve to prevent tumorigenesis process and how exploitative cancer cells break through those defensive mechanisms. During the course, students will be required to read various research papers in cancer studies and discuss their impacts and possible pitfall, which will enhance students' critical thinking ability. Prerequisite: BIOL-SHU 22 Foundations of Biology II

BIOL-SHU 250

Organismal Systems

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: CCSC-SHU 114 or BIOL-SHU 21.

BIOL-SHU 261

Genomics and Bioinformatics

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: FoS Biology 1 AND Biostatistics or Statistics AND ICP, Introduction to computer programming.

BIOL-SHU 263

Developmental Biology

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-250, or Foundations of Science III Biology, or Foundations of Biology II.

BIOL-SHU 271

Cell Biology: Body's Battle with Cancer

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. Prerequisite: Foundations of Biology I (BIOL-SHU 21)

BIOL-SHU 314

Advanced Cell Biology Lab

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 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. The course is designed as an upper level 4-credit major elective course, for biology and neural science majors mainly, and open to other natural science majors who have taken Foundation of Biology I or II, or FoS Biology Lab.

BIOL-SHU 400

Independent Study - Biology Capstone

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.

BIOL-SHU 997

Independent Study - Biology

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 Discipline Leader in Biology 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.

BIOL-SHU 998

Integrated Science Capstone

This course provides students with a completion of their undergraduate science education by applying the skills and knowledge they acquired over the course of their major 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. Prereqs: students must have completed (or enrolled in) all remaining major requirements.

BIOL-SHU 999

Biology Undergraduate Research Thesis

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.)

BUSF-SHU 3

Business and Economics Honors Seminar

Prerequisite: Permission by the Coordinator of Business Honors Program.

BUSF-SHU 5

Principles of Finance for Non-majors

This course is for Non-Business and Non-Data Science with Finance Concentration students. It is a general elective course.

BUSF-SHU 101

Statistics for Business and Economics

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. Prerequisite: None.

BUSF-SHU 142

Information Technology in Business & Society

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: None.

BUSF-SHU 188

Chinese Business and Finance -- A Bilingual Introduction

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.

BUSF-SHU 200B

Topics in Business: Real Business Case Projects

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.

BUSF-SHU 200C

The Globalization of Business Enterprise

The Globalization of Business Enterprise (GLOBE) focuses on globalization and its implications for business and individuals. The course examines the global business environment and practices, places emphasis on implications of the globalization on business strategy, functional policies, as well as on individuals who make decisions on their professional and personal lives. The course is composed of four modules that review the facts about globalization on a spectrum of macro to managerial to personal aspects and spark reflections about the future agenda for global business leaders. These four modules are: 1) introduction of globalization, its myths, and business consequences; 2) presentation of the theoretical framework that analyzes similarities and differences and related strategic/functional implications on business decision-makers; 3) strategic responses to globalization on how to overcome and take advantage of cross-border differences; 4) globalization and you: to help the students to understand the importance of planning a global career and expanding their horizons to become a better global citizen. As a key characteristic, the course uses real-world case studies as a foundation for the application of theory, analysis of strategy and discussions on successes and pitfalls. Open to Juniors and Seniors.

BUSF-SHU 200D

Business Consulting in China

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 and/or Intro to Marketing, or upon approval by the instructor; requires Junior or Senior standing

BUSF-SHU 200E

Network Analytics

In our modern interconnected world, with global online communities and information systems, network structure drives critical processes, shaping how our social, economic, and technological systems function and evolve. Analyzing interconnected data allows us to answer fundamental questions of how localized decisions and actions impact the behavior of the entire system. Network data pose significant challenges to mainstream Data Science and Machine Learning as entities connected in networks have complex correlations that violate the assumption on the independence of the data points. This course combines theories and models from computer science, economics, and the social sciences to guide the analysis of network data. Topics include combinatorial and probabilistic techniques for link analysis, strategic behavior in networks, game theory, centralized and decentralized search algorithms, network models based on random graphs, and the spread of belief, opinions, and convention through social networks. Prerequisites: Introduction to Computer Programming (to manipulate network datasets), Calculus, and Statistics.

BUSF-SHU 202

Foundations of Finance

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: BUSF-101 and ECON-3.

BUSF-SHU 208

Chinese Financial Markets

This course introduces the institutions, instruments, and empirical regularities of Chinese financial markets. The target is to provide students with a comprehensive understanding of Chinese financial markets. It focuses on current issues and debates about Chinese financial markets, including 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 ones will be highlighted. (fulfills NYU Shanghai Business major Finance Elective).

BUSF-SHU 210

Business Analytics

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. A prior Statistics Course (BUSF-SHU 101)

BUSF-SHU 220A

Topics in Business - 2 cr: Chinese and International Accounting

During the past decade, the world has witnessed one of the most significant changes ever happened to corporate financial reporting - the global adoption of IFRS (International Financial Reporting Standard). So far, nearly 70 countries (including all EU countries) have mandated IFRS for their listed companies, and about 40 countries are in the process of converging to IFRS. China started its convergence to IFRS in 2007, and by 2010 the Chinese Accounting Standards (CAS) were about three-quarters of the way towards full agreement with IFRS. With tremendous changes in accounting standards around the world, students who want to succeed in an era of globalization must be able to read and interpret financial statements prepared under different accounting standards. The main objective of this course is to increase students' awareness of the broad spectrum of alternative approaches to accounting systems in the world and why they exist. To achieve this goal, this course will discuss knowledge of International Financial Reporting Standards, including its history, new standard adoption, the recording of financial transactions, and financial statement presentation, with an emphasis on China's convergence to IFRS and existing differences between IFRS and US-GAAP. Students will also explore concurrent issues in standard setting in the main economies such as China, the EU, and the United States which will help them develop the ability to conduct an analysis of financial reports prepared under different accounting standards. Prerequisite: BUSF-SHU 250 (Principles of Financial Accounting)

BUSF-SHU 220J

Topics in Business: Ethical Decision Making and Leadership

Whatever direction you take in your professional career after graduation – working as an entrepreneur, or being employed by a private business company, or having a position at a non-profit organization – you will eventually face a variety of ethical dilemmas which you must resolve. Many of these dilemmas will require you to balance potentially competing interests, such as your own personal interests, the interests of the organization where you work, and broader societal expectations. The purpose of this course is to introduce you to the broad range of ethical issues you may encounter, and to help you develop a set of analytical perspectives for making judgments when such issues arise. You will learn to identify and navigate ethical grey zones with more confidence and better results, which will ultimately assist you in being a more effective leader. The ethical issues covered in class will be timely and will include topics that can be found on a regular basis in global news headlines. The basic 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. There is no prerequisite and it can be counted as a 2-credit non-finance/non-marketing business elective; IMB Business elective.

BUSF-SHU 221

Professional Responsibility & Leadership

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. Prerequisite: None. Satisfies 2 credits of Business Major Non-Finance/Non-Marketing elective.

BUSF-SHU 222

Risk Management in Financial Institutions

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.

BUSF-SHU 222A

Risk Management in Financial Institutions: Market Risk

This course is divided into two 2-credits offerings: Market Risk and Credit Risk. Students may enroll in one or both of the courses. The 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. Prerequisites: Foundations of Finance

BUSF-SHU 222B

Risk Management in Financial Institutions: Credit Risk

This course is divided into two 2-credits offerings: Market Risk and Credit Risk. Students may enroll in one or both of the courses. The 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. Prerequisites: Foundations of Finance

BUSF-SHU 225

Negotiation and Consensus Building

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 understand the structure of negotiation as it is practiced in a variety of settings, and to help students 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

BUSF-SHU 229

Behavioral Finance

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. Prerequisites: Corporate Finance.

BUSF-SHU 244

Portfolio Management

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.

BUSF-SHU 250

Principles of Financial Accounting

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: Sophomore standing or higher.

BUSF-SHU 270

Financial Reporting & Disclosure

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.

BUSF-SHU 271

Artificial Intelligence for Business

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.

BUSF-SHU 272

Blockchain and its Business Applications

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.

BUSF-SHU 286

Chinese Financial Markets

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. It focuses on current issues and debates about Chinese financial markets, including 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 markets will be highlighted. Prerequisites: Foundations of Finance or Principles of Finance.

BUSF-SHU 288

Doing Business with China

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.

BUSF-SHU 303

Corporate Finance

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.

BUSF-SHU 304

Futures and Options

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-202.

BUSF-SHU 305

Debt Instruments and Markets

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-202.

BUSF-SHU 307

Private Equity & Venture Capital in Asia and Emerging Markets

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 Asian emerging markets and western markets. The entire PE/VC life cycle will be discussed from different perspectives. The course is designed to prepare students to have a good general understanding of private equity and venture capital especially with an Asian focus. This will provide an overview of investments, financing, strategies and other elements in private equity and venture capital 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. Prerequisites: Foundations of Finance, Corporate Finance and Economics of Global Business (or Macroeconomics). While not required, other valuation courses such as Equity Valuation 321 etc. are helpful. Co-Requisite: BUSF-SHU 206 Investing And Financing In And With China. Counts as a finance elective for the Business majors when taken together with the co-requisite course above.

BUSF-SHU 308

Hedge Fund Strategies

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. Prerequisites: Corporate Finance

BUSF-SHU 309

Financial Statement Analysis

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: Co-req OR Pre-req Principles of Financial Accounting.

BUSF-SHU 311

New Venture Strategy

This course introduces students to a new class of decision-making framework and tools for optimizing the most critical strategic choices faced by new ventures. The major topics include (1) identify and choose between alternative opportunities, (2) choose between different markets, technologies and business models, (3) formulate commercialization strategies, (4) evaluate the financial attractiveness of a business opportunity and different deal structures, and (5) form and manage diverse teams. This course will consist of theory-based lectures, case discussions, and guest presentations. It is suitable for students interested in founding or working in start-ups, as well as in related careers such as consulting and venture investing.

BUSF-SHU 312

International Trade and Business

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. Prerequisite: None.

BUSF-SHU 321

Equity Valuation

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: Foundations of Finance AND Corporate Finance. This course satisfies Business & Finance Elective.

BUSF-SHU 334

Advanced Futures and Options

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. Prerequisites: Foundations of Finance

BUSF-SHU 340

Advanced Financial Accounting

This course satisfies the following: Business and Finance Major: Non-Finance Elective; Business and Marketing Major: Non-Marketing Elective. Prerequisite: None.

BUSF-SHU 350

Managerial Accounting

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).

BUSF-SHU 351

Operations Management

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.

BUSF-SHU 997

Business Independent Study

MGMT-SHU 18

Strategic Analysis

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, students will learn to think critically and analytically about competitive business situations. This course emphasizes the need to look outward to the environment and inward to a firm's resources and capabilities and operating policies. It describes a firm's strategy as the formulation of "competitive strategy," "corporate strategy," and "organizational strategy".

MGMT-SHU 21

Managerial Skills

Many companies bestow a management title on key talent and expect appropriate behavior to follow. Increasing self-awareness and being open to feedback are important first steps in leading today's business for tomorrow's results. Focusing primarily on the practical aspects of managing, this course is highly interactive and, while based on solid research, it stresses a hands-on approach to improving management skills. Students will not only learn about management skills but will begin to apply those skills to become a more effective business leader. Pre-req OR Co-req: Management & Organizations.

MGMT-SHU 301

Management and Organizations

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: None.

MKTG-SHU 1

Introduction to Marketing

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: Sophomore standing or higher.

MKTG-SHU 2

Consumer Behavior

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. Prerequisites: Intro to Marketing

MKTG-SHU 3

Advertising Management

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. Prerequisite: Intro to Marketing (MKTG-SHU 1)

MKTG-SHU 9

Research for Customer Insights

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)

MKTG-SHU 57

Digital Marketing

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)

MKTG-SHU 64

Global Marketing Strategy

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. Prerequisites: Introduction to Marketing

MKTG-SHU 110

Topics: Practicum on Innovation and Branding

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. Satisfies IMB Major, and Business Major - Marketing Elective if Intro to Marketing has been taken, otherwise Non-finance/Non-marketing Elective)

MKTG-SHU 200

Strategic Marketing in China: Live Projects and Case Studies

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. Prerequisites: Introduction to Marketing, requires junior or senior standing.

MKTG-SHU 229

Luxury and Luxury Marketing

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.

SOIM-SHU 6

Law, Business & Society

This course challenges undergraduate students to think deeply about legal systems and the continual evolution of business practice and business law. This process is multidimensional and involves social, political, ethical, and technological factors. In the course, students examine how key areas of business law influence the structure of societal and business relationships, while honing their analytical, communication, and writing skills. While focusing on the American legal tradition, the course taught in Shanghai Spring 2016 will involve select points of comparison with legal and business practice in China. Stephen Harder is the managing partner of the China practice of the international law firm Clifford Chance. He is based in Shanghai where his practice focuses on cross border project transactions of Chinese institutions. When based previously in Europe and New York, he acted as counsel for the Russian and Polish privatization programs and the Polish sovereign debt restructuring. He has written on "China's Sovereign Wealth Fund: The Need for Caution" in the International Financial Law Review, and spoken recently at Harvard and Columbia on "China Ventures Forth - Advising China on Foreign Investments" and "China in the Balance: Needed Reforms, Vested Interests and the Choices Facing China's New Leaders". He has also written on "Political Finance in the Liberal Republic" in the Annals of the American Academy of Political and Social Sciences. He received his undergraduate degree in Chinese Studies from Princeton and his MBA and JD degrees from Columbia. Open to all Seniors, Juniors, with preference to Stern program students. Interested sophomores need to request permission from the instructor.

SOIM-SHU 65

Organizational Communication and Its Social Context

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. Prerequisites: None, but priority to business majors; not open to freshmen.

SOIM-SHU 165

Advanced Organizational Communication

Advanced Organizational Communication builds upon the oral and written communication skills developed in its prerequisite course, Organizational Communication & its Social Context. This advanced course provides opportunities for students to continue developing their communication skills in a variety of contexts while working and presenting to multiple audiences. In this course, students will have the opportunity to persuade real life stakeholders to take action; such activities include making a stock pitch to a financial expert, speaking to a large audience of peers / professors at an NYUSH Student-run Speaker Series, and developing a social impact plan for an actual corporate client. Presentations will vary in size and delivery method (virtual, in-person, board-room style, auditorium style, etc.). In some cases, you will work to adapt the same presentation into multiple formats. Additionally, we will incorporate role-plays, impromptus, team communication (running meetings, supportive communication, consensus building), and group discussions throughout the course. Two writing assignments will reflect content from the oral presentations in typical business document format. The course will be highly participative, real world, and interactive. The professor will do everything he can to engage real-life audience members and facilitate practical, experiential learning. Participation, taking risks, and working beyond one's comfort zone are essentials for success in this class. Prerequisite: Organizational Communication & its Social Context OR

Instructor permission.

SOIM-SHU 9006

Law, Business, & Society

This course challenges undergraduate students to think deeply about legal systems and the continual evolution of business practice and business law. This process is multidimensional and involves social, political, ethical, and technological factors. In the course, students examine how key areas of business law influence the structure of societal and business relationships, while honing their analytical, communication, and writing skills. Prerequisite: None.

CHEM-SHU 125

Foundations of Chemistry I

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 131 (Calculus) or MATH-SHU 201 (Honors Calculus)

CHEM-SHU 126

Foundations of Chemistry II

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. Prereq: CHEM-SHU 125 Foundations of Chemistry I AND pre-req or cor-req: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus

CHEM-SHU 127

FoS Chemistry Laboratory

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. Prereq or coreq: MATH-SHU 131 Calculus (or MATH-SHU 201 Honors Calculus) AND CHEM-SHU 126 Foundations of Chemistry II

CHEM-SHU 225

Organic Chemistry I

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: CCSC-SHU 109 or CHEM-SHU 126. This course satisfies: Chemistry Major: Additional Required Courses

CHEM-SHU 225L

Organic Chemistry I Lab

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)

CHEM-SHU 226

Organic Chemistry II

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 201 (225). This course satisfies: Chemistry Major: Additional Required Courses.

CHEM-SHU 226L

Organic Chemistry II Lab

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. This course satisfies: Chemistry Major: Additional Required Courses.

CHEM-SHU 312

Analytical Chemistry

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: Foundations of Chemistry II and FoS of Chemistry Laboratory.

CHEM-SHU 651

Physical Chemistry: Quantum Mechanics and Spectroscopy

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. Prereqs: CHEM-SHU 126 Foundations of Chemistry II) and CHEM-SHU 127 (FoS Chemistry Laboratory) and MATH-SHU 131 (Calculus) and (PHYS-SHU 12 (General Physics II) OR PHYS-SHU 93 (Foundations of Physics II Honors)). This satisfies a Required Course of the Chemistry Major.

CHEM-SHU 652

Physical Chemistry: Thermodynamics and Kinetics

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. Prereqs: CHEM-SHU 126 Foundations of Chemistry II and PHYS-SHU 93 Foundations of Physics II Honors/CCSC-SHU 51 Physics II. Multivariable Calculus is strongly recommended. Linear Algebra and Differential Equations is also recommended.

CHEM-SHU 661

Physical Chemistry Laboratory

Introduction to the principles and practices of experimental methods widely used in analytical and research laboratories. Emphasizes understanding of background physicochemical theory, as well as capabilities and limitations of methods and interpretations of data. Covers instrumental methods, such as UV/visible spectroscopy, FT-IR, NMR, and fluorescence, for the systematic characterization of compounds and the use of interfaced computers for data collection and spreadsheet analysis. Studies also include an introduction to computer modeling of molecular properties. Optional experiments include fluorescence studies of protein denaturation and laser studies of excited state kinetics. Prereq or coreq: CHEM-SHU 651 (Physical Chemistry: Quantum Mechanics and Spectroscopy) OR CHEM-SHU 652 (Physical Chemistry: Thermodynamics and Kinetics). This satisfies a Required Course of the Chemistry Major.

CHEM-SHU 711

Inorganic Chemistry

Studies of methods in inorganic chemistry that make use of symmetry to describe bonding and spectra of inorganic compounds with an interdisciplinary emphasis whenever feasible. Reactions and kinetics are also discussed for inorganic, organometallic, and bioinorganic compounds. Selected topics in main group chemistry are also included. Prereq: CHEM-SHU 226 (Organic Chemistry II) AND prereqs or coreqs (CHEM-SHU 651 (Physical Chemistry: Quantum Mechanics and Spectroscopy) and CHEM-SHU 652 (Physical Chemistry: Thermodynamics and Kinetics)). This satisfies an Elective Course of the Chemistry Major.

CHEM-SHU 752

Computational Chemistry

Computational Chemistry, the study of chemical systems with computer modelling and simulation, provides a sophisticated set of tools that every practicing chemist should know about. This course will introduce both the theoretical and practical aspects of modern computational chemistry, with an emphasis on quantum chemical methods. Lectures are combined with hands-on computational exercises using state-of-the-art high-performance computing-based tools. Topics include Molecular Mechanics, Molecular Dynamics, Ab Initio Molecular Orbital Theories (Hartree-Fock and Density Functional Theory), Calculation of Molecular and Spectroscopic Properties, and Electronic Excitations. With these tools, students will engage in an independent research project of their design. Prerequisites: [Physical Chemistry: Quantum Mechanics and Spectroscopy (CHEM-SHU 651) OR Quantum Mechanics (PHYS-SHU 301)] AND [Physical Chemistry: Thermodynamics and Kinetics (CHEM-SHU 652) OR Statistical Mechanics

and Thermodynamics (PHYS-SHU 302])

CHEM-SHU 881

Biochemistry I

This course offers deeper and more complete treatments of the chemistry of living cells and biological chemistry than in the Foundations of Science courses. 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. Prereq: CHEM-SHU 226 (Organic Chemistry II). This satisfies an Elective Course of the Chemistry Major.

CHEM-SHU 882

Biochemistry II

Building on the lessons of Biochemistry I, Biochemistry 2 emphasizes analysis of basic metabolic pathways, including glycolysis, electron transport, and oxidative phosphorylation, as well as mechanisms of metabolic regulation and integration. Prereq: CHEM-SHU 881 Biochemistry I. This satisfies an Elective Course of the Chemistry Major.

CHEM-SHU 997

Independent Study – Chemistry

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.

CHEM-SHU 998

Integrated Science Capstone

This course provides students with a completion of their undergraduate science education by applying the skills and knowledge they acquired over the course of their major 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. Prereq: students must have completed (or enrolled in) all remaining major requirements.

CHEM-SHU 999

Chemistry Undergraduate Research Thesis

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.)

Computer Science

CSCI-SHU 11

Introduction to Computer Programming

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. This course satisfies: Core Curriculum: Programming and Computational Thinking. Note: Students who have taken ICS in NY, Abu Dhabi, and Shanghai cannot take ICP. Prerequisite: Either placed into Calculus or at least a C in Pre-Calculus.

CSCI-SHU 101

Introduction to Computer Science

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.

CSCI-SHU 188

Introduction to Computer Music

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)

CSCI-SHU 210

Data Structures

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). This course satisfies: Core Curriculum: Programming and Computational Thinking; Major: CS Required, Data Science Required, CE Required.

CSCI-SHU 213

Databases

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: Data Structures.

CSCI-SHU 215

Operating Systems

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: Data Structures; Computer Architecture or Computer Systems Organization.

CSCI-SHU 220

Algorithms

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. This course satisfies: Major: NS Electives, CS Required, Data Science Concentration in Computer Science.

CSCI-SHU 222

Introduction to Game Programming

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.

CSCI-SHU 235

Information Visualization

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. This course satisfies: Major: CS Electives, Data Science Data Analysis Required. Prerequisite: Data Structures.

CSCI-SHU 240

Introduction to Optimization and Mathematical Programming

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. Prerequisites: ICP; AND Calculus (MATH-SHU 131) or Honor Calc (MATH-SHU 201); AND Prob and Stats (MATH-SHU 235) or Stats for Bus and Econ (BUSF-SHU 101) or Theory of Probability (MATH-SHU 233).

CSCI-SHU 308

Computer Networking

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 of 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 Ethereal labs. Prerequisite: CSCI-101 or placement test. This course satisfies: Major: CS Electives, EE Additional Electives.

CSCI-SHU 350

Embedded Computer Systems

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-202 or CENG-SHU 201. This course satisfies: Major: CE Required, EE Additional Electives.

CSCI-SHU 360

Machine Learning

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 perception 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. Prerequisite: CSCI-101 OR CSCI-11 OR placement test; MATH-131 OR MATH-SHU 201 or placement test; prereq or co-req: MATH-150 or MATH-233 or BUSF-101. This course satisfies: Major: NS Electives, CS Electives, Data Science Data Analysis Required.

CSCI-SHU 375

Reinforcement Learning

Reinforcement Learning (RL), a form of machine learning and a branch of Artificial Intelligence, enables an agent to learn in an interactive environment by trial and error using feedback from its own actions and experiences. RL seeks to learn a good policy for taking actions, using rewards and penalties as signals for positive and negative behavior. Modern RL problems are formulated as Markov decision processes with unknown environments. There are two major sub-branches of reinforcement learning: tabular reinforcement learning for relatively small state spaces;

and deep reinforcement learning, which combines deep learning and reinforcement learning, and is appropriate for environments with large (including continuous) state and action spaces. The course will cover both tabular and deep reinforcement learning. Probability theory and algorithms will be used throughout the course. Assignments will involve both mathematical derivations and programming assignments. Prerequisites: Machine Learning and Honors Theory of Probability.

CSCI-SHU 378

Introduction to Cryptography

Provides an introduction to the principles and practice of cryptography and its application to network security. Topics include symmetric-key encryption (block ciphers, modes of operations, AES), message authentication (pseudorandom functions, CBC-MAC), public-key encryption (RSA, ElGamal), digital signatures (RSA, Fiat-Shamir), authentication applications (identification, zero-knowledge), and others, time permitting. Prerequisite: CSCI-220.

CSCI-SHU 410

Software Engineering

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. This course satisfies: Major: CS Electives.

CSCI-SHU 420

Computer Science Senior Project

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. This course satisfies: Major: CS Required.

CSCI-SHU 997

Independent Study

Prerequisite: permission of the department. Does not satisfy the major elective requirement. 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.

CSCI-SHU 2314

Discrete Mathematics

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 Prerequisite: MATH-SHU 131 or MATH-SHU 201. This course satisfies: Major: Honors MATH Mathematics Electives, MATH Mathematics Electives, CS Required, Data Science Concentration in CS, CE Required.

CENG-SHU 201

Digital Logic

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. This course satisfies: Core Curriculum: Programming and Computational Thinking; Major: CS Electives, CE Required, EE Required.

CENG-SHU 202

Computer Architecture

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 microarchitectures Multi-cycle microarchitectures 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. This course satisfies: Major: CS Required, Data Science Concentration in CS, CE Required.

CENG-SHU 352

Emerging Technologies for Smart Cities

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.

CENG-SHU 400

Senior Capstone Design Project I

Prerequisite: Senior Standing.

CENG-SHU 401

Senior Capstone Design Project II

Prerequisite: CENG-400

Computer Systems Engineering

CCCF-SHU 101W1

Perspectives on Humanities: Beyond Nature

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 the 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.

CCCF-SHU 101W3

Perspectives on Humanities: Tales of Gender and Power

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.

CCCF-SHU 101W11

Perspectives on the Humanities: American Superheroes

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.

CCCF-SHU 101W16

Perspectives on the Humanities: Brutes, Monsters, Ghosts, and Other Troubling Creatures

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 in 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, comic books, films, 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 Honoré de Balzac's castrato in "Sarrasine," the Yeti in Hergé's *Tintin in Tibet*, the poltergeist in Sarah Waters's *The Little Stranger*, and the shape-shifting animals in Angela Carter's fairy tales. Primary assignments for this course will be analytical essays, including one with a research component, and a final presentation.

CCCF-SHU 101W17

Perspectives on the Humanities: Go West!

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.

CCCF-SHU 101W19

Perspectives on the Humanities: The Truth is out There?

How do we represent 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 represent these events may include painful content.

CCCF-SHU 101W20

Perspectives on the Humanities: The Question of the Anthropocene

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.

CCCF-SHU 101W21

Perspectives on the Humanities: Sino-Western Literary Exchanges

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.

CCCF-SHU 101W22

Perspectives on the Humanities: Networked Bodies: Exhibits, Organ Donations, and Alternate States of Ability

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.

CCCF-SHU 101W23

Perspectives on the Humanities: Sexual Cultures of Modernity

Sexuality is often seen as an innate part of our most intimate selves. We tend to think of it as a personal and intractable force, one beyond the touch of time and place. In the last few decades, however, scholars of sexuality have argued the opposite. Sexuality, they claim, is not simply a matter of biology but of history and culture. In this course, we'll turn our attention to sexual modernity in order to understand and assess these ideas about sexuality's contingency. Taking a comparative approach, we'll read a variety of writers, from disciplines such as

history, philosophy, and literary studies, who address questions of international sexual modernity. We'll also engage with primary texts such as novels and films that represent LGBTQ identities and women's sexuality. Students will learn to use various perspectives to reflect on these cultural productions and think critically about the meaning of modernity and the globalization of sexuality. The 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 an independent research project.

CCCC-SHU 101W24

Perspectives on the Humanities: Medicine and Disease in the Humanities

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.

CCCC-SHU 101W25

Perspectives on the Humanities: Everything You Know About Science Is Wrong

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, ranging from nineteenth-century scientific racism in the US to "traditional Chinese medicine" in the early PRC to contemporary global climate change discourse. Drawing from work such as Kapil Raj's *Relocating Modern Science*, the class will explore debates about the origins and circulation of scientific modernity. Did "modern science" originate in the West and spread "like a virus"? We will focus especially on questions of identity and representation in the making of scientific cultures. For instance, how have different ideas about gender shaped historical and present-day 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.

CCCC-SHU 101W26

Perspectives on the Humanities: Comparative Islamic Feminisms in World Literature

This course extends writing skills and concepts learned in Writing as Inquiry, focusing on a literary, cultural, historical and theoretical understanding of Muslim women's experiences in a transnational and global network of societies and politics. We will examine Muslim women's relationships with Islam—Islamic practice, habits, rituals, culture and customs—in postcolonial fiction. Within a broad regional and thematic foci we will emphasize the transnational nature of Muslim women's engagements with Islam as protagonists in this fiction travel outside their homelands and reside in diasporic communities. We will analyze the negotiations of gender roles, gender constructions and gender consciousness in a variety of situations in foreign cultures with their personal faith; aspects of the foreign culture they are able to reconcile with and ones they find difficult to adapt to, among other questions that help us understand Muslim women's spiritual experiences transnationally.

CCCC-SHU 128

Contemporary Art & New Media

Over the past three decades, the contemporary art scene in China has expanded fast. The massive political, economic, and social changes the country has undergone since the end of the Cultural Revolution in 1976 have dramatically altered its cultural landscape. The course will survey the main development areas in Chinese contemporary art. Dedicated to responding to the new textures of China's metropolitan culture, it will look at the relationship between visual arts, new media, architecture and performance in the mega-city of Shanghai, often regarded as the cradle of Chinese modernity. The class will be complemented by guest lectures and visits to public museums, galleries and artists' studios in and around Shanghai. Students will have the opportunity to meet leading figures from the art world in China as well as the international art community, including artists, museum directors, curators, art critics, and art dealers. Prerequisite: None.

CCCC-SHU 133

Journalism and Society in China

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.

Core Curriculum

EXPERIMENTAL DISCOVERY IN THE NATURAL WORLD

CCEX-SHU 119

Microbes

Microbes are tiny organisms that are found on every imaginable surface and habitat. Some microbes are essential to a healthy life; others cause infectious diseases in plants and animals, and contribute to chronic diseases and conditions, such as cancer and environmentally-related diseases. To understand our delicate and complex relationship with different forms of microbes, scientists have looked at DNA for clues about the origin of our relationship, developing tools to help with diagnostic tests, and the development of treatments and prevention methods. This information raises various social, ethical, and political questions about how we use our knowledge of microbes. In this course students will learn the fundamentals of the biological molecules that comprise the cell, and through a hands-on research project, students will identify the local microbes through the information found in their DNA. Identifying what microbes are present provides the class with a unique opportunity to understand the possible roles these microbes have in society and discuss how microbes positively and negatively affect the various policy options that are relevant to the social dilemmas that science has brought forth.

CCEX-SHU 203

Energy and the Environment

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.

The courses in this category emphasize the impact of science on society as well as cultural and historical reactions to scientific discovery. They focus on pressing world issues and current technology addressed by the natural sciences and mathematics.

CCST-SHU 132

Topics: Creativity Considered

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.

CCST-SHU 141

Innovation in/of Daily Spaces

How does a physical world -- its objects, spaces, textures, infrastructures -- circumscribe one's life -- his mental growth, working paces, leisure time, practical decisions? This course is designed for college students who are interested in learning about innovative designs through thinking, tooling, presenting and experimenting -- in the context of "daily space." Students: No design background needed for this course. Please note that the course does NOT aim at exclusive design topics or technical training purposes. It is a comprehensive study that mixes in-class lectures with hands-on workshops, and enhances frontier research with low-tech (for example, ordinary objects) and intuitional experiences. Fresh comers will get a hands-on and fun introduction to the design world. Already design-minded students will benefit from its innovative and comprehensive approach. Prerequisites: None.

CCST-SHU 142

Environment Connections: Water, Waste, and Wellness

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." Prerequisite: None.

CCSF-SHU 101L

Global Perspectives on Society

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.

CCSF-SHU 122

Traditional Chinese Wisdom and Its Transformation in Modern Times

This course will give a brief survey of Chinese philosophy from the pre-Qin period to the present in the perspective of world philosophy. To capture the quintessence of traditional Chinese wisdom, we will focus on three most influential schools of thought in ancient China, namely, Confucianism, Taoism and Buddhism. We will delineate the evolution of Confucianism from Confucius to Neo-Confucianism in Song and Ming dynasties, distinguish Taoism as philosophy from Taoism as religion, and examine the process of sinicization of Buddhism, taking Zen Buddhism as a paradigm case. In modern times, against the background of the exchange between the Chinese and the Western cultures, traditional Chinese wisdom, through the creative work of modern Chinese thinkers, obtained a new lease of life. Under the heading of the modernization of traditional Chinese wisdom, we will examine three most prominent schools in the 20th century Chinese philosophy, namely, contemporary Neo-Confucianism, Tsinghua school of realism (the Chinese analytic philosophy), and Chinese Marxism. Students are required to read the assigned texts before each class and actively participate in class discussions. Prerequisite: None.

CCSF-SHU 123

Contemporary Chinese Political Thought (formerly China’s Political Thought in the Post-Maoist Era)

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. Prerequisite: None.

JOUR-SHU 9202

Methods and Practice: Journalism

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: None.

LWSO-SHU 9251

Tpcs in Law & Society: Law Culture and Politics in China

In its remarkable rise, China studies the world. But, in applying lessons from abroad, China often modifies them to reflect China’s own cultural values and traditions, as they have evolved over millennia. In Beijing and Shanghai as well as Washington and New York, officials, experts, and students use the same global vernacular of “governance” to discuss approaches to pressing public problems. Students in either country will hear terms (often in English) such as rule of law, democracy, transparency, environmental sustainability, and CSR (corporate social responsibility.) But the practical meanings of such terms are shaped by what might be called different “operating systems.” This course will seek to provide students with basic “vocabulary” (words, concepts and frameworks) of history, political, legal and economic systems needed to begin to “translate” between American and Chinese governance systems. To do so, the course will draw on the diverse backgrounds of NYU Shanghai students, and students’ daily experiences as students in at NYU Shanghai. We hope to learn about China (and the US), but also to reflect—in the light of 911, the 2008 global economic crisis, the explosion of social media and cyberissues, and climate change—on the ways in which NYU Shanghai students may learn how to navigate and help address the 21st century’s core challenges.

SCA-SHU 9634

Global Connections: Shanghai

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.

ECON-SHU 1

Principles to Macroeconomics

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.

ECON-SHU 2

Principles of Microeconomics

Focuses on individual economic decision-makers—households, business firms, and government agencies—and how they are linked together. The emphasis is on decision making by households and firms and how these decisions shape our economic life. Explores the different environments in which businesses sell their products, hire workers, and raise funds to expand their operations; the economic effects of trade between nations; and the effects of various government policies, such as minimum-wage legislation, rent controls, antitrust laws, and more. Prerequisite: MATH-SHU 131 or 201.

ECON-SHU 3

Microeconomics

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 (MATH-SHU 121, 131 or 201)

ECON-SHU 5

Math for Econ 1: Optimization (formerly Math for Economists)

Elements of calculus and linear algebra are important to the study of economics. This class is designed to provide the appropriate tools to complement study of intermediate and advanced economic theory. Examples and motivation are drawn from important topics in economics. Topics covered include derivatives of functions of one and several variables; interpretations of the derivatives; convexity; constrained and unconstrained optimization; series, including geometric and Taylor series; matrix algebra; and (possibly) eigenvalues.

ECON-SHU 10

Intermediate Microeconomics

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: Principles of Microeconomics or Microeconomics.

ECON-SHU 201

Mathematics for Economists

This course explores applications of calculus to basic differential equations and functions of several variables, which arise in virtually all fields of applied mathematics including Economics. Topics addressed include first and second-order differential equations, surface and line integrals, divergence, gradient, curl, and the theorems of Gauss, Green, and Stokes. Prerequisite: MATH-131.

ECON-SHU 202

Intermediate Microeconomics

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-1 or Economics of Global Business (ECON major).

ECON-SHU 210

Topics in Macroeconomics: Market Design

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 builds 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.

**ECON-SHU 215
Economic History**

This course introduces students to a broad set of important economic history topics. The period covers the Middle Ages to the 20th century, and the geographic coverage is globally wide. More focus is given to Britain and Northwestern Europe because that is where economic growth first occurred, but US, Asia, Latin America, and Africa are also included. The course is designed so that students with a particular interest in one topic area can focus their attention in that area, while still being exposed to a broader set of research. It is designed to This course has several objectives: the first is to give students essential background in the historical context for modern economic development through time. Secondly, it shows how theoretical approaches and quantitative tools can be applied to historical evidence. The third objective is to introduce students to research and paper writing in economic history and other applied fields of economics. Pre-req Principles of Macroeconomics or Economics of Global Business or Co-req Principles of Macroeconomics or Economics of Global Business.

**ECON-SHU 216
Introduction to Game Theory**

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. Prerequisites: Calc (MATH-SHU 131 OR 201)

**ECON-SHU 225
Advanced Economic Theory**

Designed to introduce students to some of the main model-building techniques that have been developed by microeconomists. Intended for advanced undergraduates who have taken the necessary preparatory courses in economics and mathematics. Any of the following three basic topics may be covered. The first topic is the static theory of consumer behavior both in a certain world and in an uncertain world, including game theory. The second topic is the theory of general equilibrium. The third topic is the theory of dynamic optimization. In addition to the coverage of the economics, the advanced mathematical techniques that are needed to understand the material are reviewed. Prerequisites: Intermediate Micro AND (Math for Econ 1 OR Multivariate Calculus).

**ECON-SHU 238
History of Modern Economic Growth: Exploring China From a Comparative Perspective**

This course has two goals: 1) to provide understanding of economic development with applications to Chinese economy and Chinese institutions, and (2) to learn how to analyze major policies in China's economic development in both oral and written form. Since the economic reform in 1978 from a planned economy toward a market-oriented economy, China has experienced rapid institutional changes and achieved high growth rates. We will start with the historical background of this transition process. We will then cover post-reform topics such as economic reform, the One Child Policy, political economy, media and internet control, labor market, migration and discrimination, environment and China in the global economy. Our collection of readings are from the exciting yet still growing literature on economic development of China. In particular, you will learn what's possible, interesting and convincing in empirical research on China. Prerequisite: ECON-SHU 3.

**ECON-SHU 251
Economics of Global Business**

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. Prerequisites: ECON-SHU 3.

**ECON-SHU 260
International Trade**

This course will cover the basics of international trade theory and policy. It will introduce students to the main theoretical concepts in international trade, ranging from the Ricardian comparative advantage theory to the new trade theory under imperfect competition. Using the tools of microeconomic analysis, this course will explore the patterns of trade among countries, policies that impede or promote free trade as well as their welfare and distributional implications. Prerequisite: Introductory Microeconomics.

**ECON-SHU 301
Econometrics**

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. Prerequisite: 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).

ECON-SHU 315

Competitive Analysis

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

ECON-SHU 317

The Economics of Discrimination

This research-focused seminar course will first cover applied microeconometrics 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. Prerequisites: Econometrics (ECON-SHU 301) AND Microeconomics (ECON SHU 2 or 3).

ECON-SHU 335

Development Economics

This course focuses on the understanding of the process of economic development. The course will be structured around the following four questions: (1) Why are some countries much poorer than others? (2) What are the main barriers to the process of economic development? (3) What are the main barriers that prevent the poor to escape from poverty? and (4) Why do these barriers exist and persist? The first half of the semester is focusing on the macro perspective in understanding the economic development. We start from laying down the framework in order to understand the mechanics behind the economic growth. The second half of the semester is focusing on the micro perspective in understanding the development at the individual level. We will cover various topics, including land and labour market, education, health, finance, firms, technology, taxation, corruption and public service delivery. This course combines theory and empirics but maintains a strong applied focus. Under each theme, we will derive testable implications from the theory, subject these predictions to econometric testing, comment on the robustness of the results obtained, and seek to draw policy conclusions. Most classes focus on one or two applied papers and an exercise that asks you to explore these questions on your own. Prerequisites: Microeconomics, Principles of Macroeconomics, and Econometrics.

ECON-SHU 342

Behavioral Economics

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 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.

ECON-SHU 360

Experimental Economics

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.

ECON-SHU 400

Economics Capstone Seminar

Open to Senior Economics Majors Only.

ECON-SHU 416

Game Theory: Advanced Applications

This course introduces games of incomplete information and the applications. The first half of the course will review the basic theories, including normal form games, extensive form games, iterated dominance, and Nash equilibrium, with a focus on games with incomplete information. The second half will go through different topics and case studies of incomplete information, e.g. contract theory, auction, social learning, matching, etc. Students will acquire the basic concepts of these theories, and be able to model real-world situations with the language of game theory. Prerequisites: ECON-SHU 10 Intermediate Microeconomics (or students who took ECON-SHU 216, Introduction to

Game Theory, may be admitted upon consultation with the instructor).

BPEP-SHU 9042

The Political Economy of East Asia

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: Upperclass standing, with priority to Stern BPE Students.

EENG-SHU 251

Circuits

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-131 or MATH- 201.

EENG-SHU 400

Senior Capstone Design Project I

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.

EENG-SHU 401

Senior Capstone Design Project II

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: EENG-400.

EAP-SHU 100A

English for Academic Purposes: Science in the Public Sphere

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.

EAP-SHU 100B

English for Academic Purposes: Where do we go from here?

This freshman EAP course is designed to help develop your academic speaking, listening, reading and writing skills in English. At the same time, as a content-based EAP course, it will aim to help you better understand, discuss, and apply some key concepts from social science and philosophy. Specifically, this course will examine a distinction many have made in the Twentieth and Twenty-first Centuries (and earlier) between two ways of knowing and living that human beings exhibit. These two ways are summed up in the course's title as 1) Massification (a.k.a. objectification, alienation, dehumanization) and 2) Humanization (a.k.a. authenticity, critical consciousness, liberation). To examine this theme, the course will be further divided into four parts: (1) To begin, we will explore and discuss theories regarding how human beings psychologically & socially construct knowledge/reality. (2) We will then go on to apply these concepts in order to examine a critical feature of our modern world, namely how it is shaped by consumerism/materialism. (3) This will, in turn, lead us to examine the social, environmental, psychological effects consumerism is having on our world and ourselves. (4) This will finally lead us to examine some fundamental, philosophical questions human beings have asked for ages, such as: What is happiness and how can it be attained? How can one live a meaningful life at this time? How can we improve our society (locally, national and globally)? As you engage with this content, you will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—you will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100C

English for Academic Purposes: Cities and Urban Consciousness

Cities and Urban Consciousness aims to develop students' speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. While all four language modalities will be practiced, there is a special focus on speaking and listening. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected 'unquantifiables' as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student's learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100D

English for Academic Purposes: The Corporation and the Individual

In this English for Academic Purposes seminar, we will develop speaking, listening, writing, and reading skills while exploring the relationship between the corporation, or business organization, and the individual. The root of the word "corporation" is "corps" or "body," and this body has become a complex being in the 21st century. How is it like and not like an individual? What is its obligation to its human parts and what obligation do those human parts have to the whole? In a time of globalization, those human parts are in motion and the borders of the body itself have become more fluid, less narrowly defined. What new models of this "body" are emerging? How is it positioned (or not) to meet the demands of the developing century? Are there parallels to this "body" in nature itself? Who are traditional "insiders" and "outsiders" and how might such roles be reimagined? As we interrogate the role of innovation and creative problem-solving in a business setting, we will apply such principles to our own work in the classroom and evaluate their impact. What lessons can be learned or new models explored? As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100E

English for Academic Purposes: Consumerism, Alienation, and Human Happiness

This freshman English for Academic Purposes (EAP) course is designed to help you develop the speaking, listening,

reading, writing and critical thinking skills you need to study successfully in an English-speaking university. Since it is a thematic, content-based EAP course, it also aims to assist you to develop and apply your understandings of certain concepts from social science and the humanities that are important to a well-rounded liberal arts education. Specifically, this course will explore what some regard as an unprecedented, global crisis humanity seems to be facing, a crisis arising from the influences of consumerism and materialism on modern society and culture. We will further examine what it may mean to live a meaningful life at this time in history, and what some keys to creating a more sustainable and happier future might be. As students engage with this content, they will practice high-level language, communication and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100F

English for Academic Purposes: Business and Social Responsibility

In this seminar, we will develop speaking, listening, reading, and writing skills while investigating business organizations. In particular, we will look at businesses and their responsibilities to the cities and communities in which they operate. Increasingly, businesses are viewed as being accountable to their communities—to the environment, to their workforces and to the cities and towns that house their headquarters and factories. Some now believe that social problems, in both developing and developed countries, are on a scale that governments and non-profit organizations cannot address alone. They argue that only businesses have the resources to address these problems and that there needs to be an “evolution” in capitalism...an evolution in business goals and practices that will help create sustainable and livable cities, i.e., cities in which people desire to live as well as work. We will begin the course by looking at different business models and new concepts in capitalism. We will then look specifically at Shanghai and the role that businesses and other types of organizations play in addressing the many social problems that a city such as Shanghai faces. There will be an emphasis on both creative and critical thinking as we ask questions, analyze problems and come up with our own solutions. As students engage with this content, they will practice high-level language, communication and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100F

English for Academic Purposes: Business in the 21st Century

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 role of business organizations in what some call the “post-modern period,” or the 21st century. As technology develops and both social and environmental needs evolve, what role does business play in society? What role should it play? What are current business trends in the west? In China? What are current narratives (cultural, historical, personal) about business and how do such narratives shape business practices themselves? In this course, there will be an emphasis on both creative and critical thinking as we ask questions, analyze problems and come up with our own solutions.

ENGL-SHU 100G

English for Academic Purposes: Negotiating Self and Other

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 experimental 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. 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. 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 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.

EAP-SHU 100H

English for Academic Purposes: Smart Cities/Smart Lifestyles

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.

EAP-SHU 100I

English for Academic Purposes: Understanding the News

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.

EAP-SHU 100J

English for Academic Purposes: What's So Funny? Taking Humor Seriously

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.

EAP-SHU 100Q

English for Academic Purposes: Cultivating Minds

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.

English for Academic Purposes: Digital Identities

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.

English for Academic Purposes: (Un)Sustainability

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 SDG’s 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.

English for Academic Purposes: Science in the Public Sphere

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. In the fall semester, you will complete a variety of communicative tasks, reflective writing assignments and the planning and preparation for an experiential learning project that will be carried out in the spring semester. 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. The spring semester will be a continuation of this theme and with further development of language, communication, and critical thinking goals. This 2 credit version of EAP: Science in the Public Sphere is intended for Science majors.

English for Academic Purposes: Cities and Urban Consciousness - Part I

Part I of two sections: Cities and Urban Consciousness aims to develop students’ speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. While all four language modalities will be practiced, there is a special focus on speaking and listening. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected ‘unquantifiables’ as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student’s learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 10053 (formerly 10151)

English for Academic Purposes: Storying Science: How the Narratives of Science Have Changed

The objective of this seminar is for students to develop and practice academic speaking, listening, reading, and writing skills that will enable them to engage in discourse about how we view science as a discipline. We will explore the history of scientific rhetoric by investigating two co-dependent narrative arcs in the “story” of science: the way scientists write/talk/think in scientific discourse, and the way we write/talk/think about science and scientists. For centuries, science bore little resemblance to the empirical discipline that we recognize today, yet, while modern science has claimed the language and tools of objectivity, it is wrong to believe that it is free of argument, controversy, and bias. We will consider how science emerged from philosophy, advanced, and adjusted its methodology through ages of renaissance, enlightenment, industrialization, and global expansionism, and usurped religion as the ultimate authority on the “great” questions of life along the way. We will discuss the genres of science writing, science in media and digital science, and debate questions of ethics and popularization. In parallel, we will look at the ways in which science and scientists have been portrayed in popular culture, literature and the visual arts, and equally, how a desire to appear “scientific” has influenced everything from literary theory to advertising. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100T

English for Academic Purposes: The Greater Good

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.

EAP-SHU 100U

English for Academic Purposes: Money Stuff

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.

EAP-SHU 101A

English for Academic Purposes: Storying Science – Advanced

The objective of this seminar is for students to develop and practice academic speaking, listening, reading, and writing skills that will enable them to engage in discourse about how we view science as a discipline. We will explore the history of scientific rhetoric by investigating two co-dependent narrative arcs in the “story” of science: the way scientists write/talk/think in scientific discourse, and the way we write/talk/think about science and scientists. For centuries, science bore little resemblance to the empirical discipline that we recognize today, yet, while modern science has claimed the language and tools of objectivity, it is wrong to believe that it is free of argument, controversy, and bias. We will consider how science emerged from philosophy, advanced, and adjusted its methodology through ages of renaissance, enlightenment, industrialization, and global expansionism, and usurped religion as the ultimate authority on the “great” questions of life along the way. We will discuss the genres of science writing, science in media and digital science, and debate questions of ethics and popularization. In parallel, we will look at the ways in which science and scientists have been portrayed in popular culture, literature and the visual

arts, and equally, how a desire to appear “scientific” has influenced everything from literary theory to advertising. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101A

English for Academic Purposes: Ethical Considerations in Science and Technology

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. Prerequisite EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101B

English for Academic Purposes: Where do we go from here? Massification vs. Humanization – Advanced

This freshman EAP course is designed to help develop your academic speaking, listening, reading and writing skills in English. At the same time, as a content-based EAP course, it will aim to help you better understand, discuss, and apply some key concepts from social science and philosophy. Specifically, this course will examine a distinction many have made in the Twentieth and Twenty-first Centuries (and earlier) between two ways of knowing and living that human beings exhibit. These two ways are summed up in the course’s title as 1) Massification (a.k.a. objectification, alienation, dehumanization) and 2) Humanization (a.k.a. authenticity, critical consciousness, liberation). To examine this theme, the course will be further divided into four parts: (1) To begin, we will explore and discuss theories regarding how human beings psychologically & socially construct knowledge/reality. (2) We will then go on to apply these concepts in order to examine a critical feature of our modern world, namely how it is shaped by consumerism/materialism. (3) This will, in turn, lead us to examine the social, environmental, psychological effects consumerism is having on our world and ourselves. (4) This will finally lead us to examine some fundamental, philosophical questions human beings have asked for ages, such as: What is happiness and how can it be attained? How can one live a meaningful life at this time? How can we improve our society (locally, national and globally)? As you engage with this content, you will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—you will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101C

English for Academic Purposes: Negotiating Self and Other – Advanced

This seminar is meant to develop English for academic purposes literacy in all four language modalities (speaking, listening, reading, and writing) by exploring an interdisciplinary theme that, while grounded in the social sciences, also cuts across the humanities, especially philosophy. 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 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 development, and material and consumer identities. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101D

The Corporation and the Individual

In this English for Academic Purposes seminar, we will develop speaking, listening, writing, and reading skills while exploring the relationship between the corporation, or business organization, and the individual. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. The root of the word “corporation” is “corps” or “body,” and this body has become a complex being in the 21st century. How is it like and not like an individual? What is its obligation to its human parts and what obligation do those human parts have to the whole? In a time of globalization, those human parts are in motion and the borders of the body itself have become more fluid, less narrowly defined. What new models of this “body” are emerging? How is it positioned (or not) to meet the demands of the developing century? Are there parallels to this “body” in nature itself? Who are traditional “insiders” and “outsiders” and how might

such roles be reimaged? As we interrogate the role of innovation and creative problem-solving in a business setting, we will apply such principles to our own work in the classroom and evaluate their impact. What lessons can be learned or new models explored? As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101E

Cities and Urban Consciousness

Cities and Urban Consciousness aims to develop students' speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected 'unquantifiables' as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student's learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101G

Intercultural Communication

Part of the mission of NYU-Shanghai is to enable students to 'immerse themselves in English, the language of international communication' as well as 'master the skills of cross-cultural effectiveness.' These are perhaps the most important goals that students can set for themselves in today's global world where people from disparate cultures must come together to solve the big problems of the age. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. 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." At the core of the course is the idea that language and culture are inseparable. Linguistic competence itself is not enough for successful communication in a diverse multicultural world. Students will be engaged to conceptualize and practice intercultural communication and etiquette that is both verbal and non-verbal, question assumptions they have about "normal" communication, and develop the ability to perceive and communicate from multiple intercultural points-of-view. They will also be prompted to develop their own set of intercultural values in light of what they have learned. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101Q

English for Academic Purposes: Digital Identities in Modern Public Spheres

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. 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. Prerequisites: EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101R

English for Academic Purposes: (Un)Sustainability

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. 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. Prerequisite: EAP-SHU 100 (cannot take same topic/instructor as 100)

EAP-SHU 101T

English for Academic Purposes: The Greater Good

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 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: EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101U

English for Academic Purposes: Money Stuff

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 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: EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101S2

Cities and Urban Consciousness

Cities and Urban Consciousness aims to develop students' speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected 'unquantifiables' as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student's learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 110 (formerly ART-SHU 110)

English Language Seminar: Intercultural Communication

This short course will provide students with the opportunity to practice their academic English by learning about intercultural communication and etiquette. Students will be engaged to think about 'intercultural variables' and 'communication styles' that involve both verbal and non-verbal communication. Much of the course will include reflection on short case studies of intercultural contact between Chinese and Americans (other cultures may also be considered). Students will be encouraged to question assumptions they have about "normal" communication. They will also be prompted to develop their own set of intercultural values in light of what they have learned. The course will include focused practice in the use of all four language modalities: speaking, listening, writing, and reading.

EAP-SHU 120 (formerly ART-SHU 120)

English Language Seminar: British Literature, 18th Century to the Present

This course will offer a survey of British literature from the eighteenth century to the present, beginning with the Romantic period and ending with postcolonial literature. Students will study the process of canon formation and the writing of literary history, the growing division between popular and high literature, and the representation of imperialism and postcolonialism. Students will develop critical thinking skills and practice English reading and writing skills through class discussion, essay writing, and short weekly writing assignments. Authors will include Jane Austen, William Wordsworth, Lord Alfred Tennyson, Virginia Woolf, and others.

CRWR-SHU 159

Introduction to Creative Writing

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. Prerequisites: 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.

CRWR-SHU 175

Storytelling Strategies

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.

CRWR-SHU 245

Speculative Fictions

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 (and watching a few films), framed by a set of critical texts; 2) research; and 3) frequent writing exercises and assignments, culminating in a semester project. Students 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 to speculative fiction. Students will conduct research necessary to both better understand those texts and their authors' techniques and thinking, and to do work necessary to support their own creative experiments in writing their own speculative fiction and/or critical work (research is a big part of the successful speculative fiction writer's practice). All students will begin their writing process by generating a range of story ideas by way of writing experiments and assignments before committing to a semester project. Once students have settled their semester projects, they will conduct research alongside the drafting of scenes for their final project, with the research helping them understand and begin to build a speculative world. Students will write a focused research paper as well as a creative work — most likely a short story, perhaps an episode of a larger envisioned project — informed and shaped by the research they conduct. Students are welcome to work to incorporate the work they do in this class into IMA or creative writing projects that exceed the scope of this class (so, for instance, IMA students might work to integrate their work for this class into their interactive projects).

CRWR-SHU 246

Illuminating "Life's Foolscap": Intermediate Creative Writing

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.

WRIT-SHU 101

Writing as Inquiry: WI

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.

WRIT-SHU 102

Writing as Inquiry: WI

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.

GCHN-SHU 110

The Concept of China

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. (This may be used as a survey course in the Humanities.)

GCHN-SHU 134

Politics and Aesthetics of New Chinese Documentary: Globalization and Social Transformations

The new Chinese documentary emerged in the 1990s. Prior to that, documentary film in China was exclusively produced and distributed within a state-controlled media system. Paralleling and bearing witness to more than two decades of rapid and large-scale economic and social transformations in China, the new documentary has also transformed itself into a broad DV trend involving an increasingly large number of filmmakers, activists, critics and publics. The course traces a historical trajectory of the movement and pursues discussions on the dynamic relationships between aesthetic experimentations, socio-political exigencies and ethical responsibilities in documentary-making. Screenings address issues of migration, social justice, the environment, and LGBTQ movement, etc. Several filmmakers will visit and discuss their works with the students. There will likely be a couple of field trips to alternative exhibition spaces of independent cinema.

GCHN-SHU 164

The History of the Silk Road

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. Prerequisites: None. (This may be used as a Survey course in the Humanities OR Global China Studies Geographies.)

GCHN-SHU 183

Love and War, Wisdom and Strife: Chinese Poetry in a Global Context

Love and war, wine and song, exile and return, sex and sensuality, adventure and meditation, yearning, struggle, and the peace that may come with deep wisdom: China’s vibrant poetic tradition embodies the human drama and lives on as one of the world’s most profound explorations of what it is to live, love, struggle and seek insight—of the human condition itself. Furthermore, China’s history is one of verse, as its poetic traditions give readers both insight into its civilizational story through the voices of its poets – from soldiers and emperors to proud women and men, from everyday folk and exceptional historical figures to artists and scholars of the highest rank. In short, to come to a real understanding of China—and, especially the aesthetic pleasures of Chinese culture—one must spend time among its poets. This is as true of China in our global age as it is of China’s deep history: English-language translations of China’s poetry are attempts—profoundly beautiful in their own right—to translate something essential about Chinese identity while also striking universal chords. (fulfills Chinese Arts Core Curriculum)

GCHN-SHU 200

Topics in Global China Studies

Check Albert for various relevant topics each semester.

GCHN-SHU 208

Chinese Science Fictions

This course will introduce students to approaches to studying Chinese science fiction (SF) in three different forms: short stories, novels, and movies. We will approach the question of what makes a given story “science fiction” as well as what makes a Chinese SF story “Chinese” besides the passport or first language of its author. We will look at such enduring topics as artificial intelligence, non-human intelligence, the extension of human life, and dystopian futures, and the ways that the demands of art, censorship, and commerce shape their representation in SF. Students will read a handful of British and American SF stories to help introduce the genre before moving into Chinese prose fiction (in English translation) and movies (in Cantonese or Mandarin, with English subtitles). Scholarly analyses of SF as a genre and histories of SF in Mainland China will equip students with analytical frameworks to apply to the fictional texts they encounter both in the syllabus and in their outside reading.

GCHN-SHU 233

Foreign Societies in Classical Chinese Writing

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 Instructor Permission (contact Professor Zhao Lu, lz69@nyu.edu)

GCHN-SHU 234

Dunhuang and Its Global Connections

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? This class focuses on one of the biggest archeological discoveries in the 20th century: Dunhuang. In addition to how Dunhuang was discovered, students explore the main elements that vitalized Dunhuang as a metropolitan city: art, religion, language, literature, and technology. The course further examines the lifelines that brought diverse cultural elements into Dunhuang from China, India, Central Asia, etc. As part of the class, students 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 in order to reconstruct what it was like to live in ancient Dunhuang. Prerequisite: None.

GCHN-SHU 243

Chinese Environmental Studies

As the 21st century began, pundits debated whether, like the 20th, it would also be "America's century," whether China's remarkable economic rise would make it "China's century," or, perhaps, one seeing the development of "Chimerica." At the same time, it was also said that environmental limits to development will be the primary shaper of countries and their fortunes—with China (and India), with huge population and rapid development, and the U.S., with high per capita consumption, as keys to the future of the planet. This course will study China's environmental challenges and governance in the context of America's own environmental challenges and governance system, and in the context of the challenges to the two countries as the primary sources of the world's greenhouse gas emissions. We will consider how developments may shape business, government, and culture, and the ways in which China and America may learn from one another. Prerequisite: None.

GCHN-SHU 252

20th-Century East Asia-U.S. Relations

This is a lecture course focusing on the changing relationship between East Asian countries and the United States in the 20th-century. On the basis of reviewing the early encounters between East Asia and America in the 18th and 19th centuries, this course covers the major political, economic, military, and cultural developments, as well as the dynamics underlying them, that have shaped the confrontation and cooperation between various East Asian countries and the United States in the past 100 years. In particular, this course aims to help students develop a better understanding of how nations with different values, cultural-historical backgrounds, political institutions, and levels of economic development may coexist in today's world. Prerequisite: None.

GCHN-SHU 255

Eat, Pray Ponder: Chinese Intellectual Culture through the Age

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.

GCHN-SHU 263

Voices from the Margin: Modern Chinese and Sinophone Writers

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. (This may be used as a topic course or literary interpretation in the Humanities.) Prerequisite: None.

GCHN-SHU 264

Chinese Migrant and Diasporic Networks

The history of Chinese emigration spans numerous centuries, continents, and islands. Equally heterogeneous, one should note, are the lived experiences of migrants and their younger generations. In recent decades, ideas like “Chinese transnationalism” and the “rise of China” have gained ground among popular and academic circles East and West; at times, they generate the nervous Exclusion-era imagination of a looming “Asiatic takeover.” Such a fervently growing imagination notwithstanding, this line of discourse and belief suggests a number of persistent problems in the studies of Chinese overseas, or Chinese diaspora: for one, while recognition of a global Chinese presence has taken on renewed importance in recent years, scholarly conversations have been modest and sporadic at best, when it comes to scrutinizing the full spectrum of migrant and diasporic cultures (both in and prior to the twentieth century) beyond the re-iterations of ethnic homogeneity, nationalist sentiments, nostalgia, and cultural alienation. Among the humanists, the failure to address long-term practices of social indigenization, multiethnic networks, and the change of cultural affinities makes our current historical juncture a particularly urgent one for reconsidering the meanings of these globalizing networks and the applicability of “Chinese” to the inherently diverse diasporic articulations. Materials of our study are drawn from multidisciplinary sources, including history, theory, fiction, and visual culture. Students learn to explore the intricate conditions underlying the representations, making, and unmaking of Chinese subjectivities. Some topics of interest include Zheng He’s now 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.

GCHN-SHU 264

Chinese Migrant and Diasporic Networks

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: None. (This may be used as a topic course in the Humanities.)

GCHN-SHU 267

The Cultivated City

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 intellectuals engage with the traditions of cultivation in order to imagine and recreate the future metropolis.

GCHN-SHU 270

Researching Chinese Politics and Society

Examines how various methodologies in the social sciences are used for research about social and political trends in contemporary China. Themes includes understanding the production of information by the Chinese statistical system, understanding how to use this data effectively, the use of mapping / GIS techniques, survey-research and survey experiments, internet research and web-crawling innovations, as well as the analysis of Chinese textual data. Students will actively make use of these approaches for their assignment. Prerequisites: none, but it is desirable to have taken either a math, a statistics or a programming course.

GCHN-SHU 275

Memory Politics in China

From historical television series, to claims of a “5000 year-old culture,” to arguments bolstering territorial claims, in China history seems ubiquitous in contemporary life. In this class, explore the present-day politics of the past in China through film, fiction, music, food, urban sites, and contemporary controversies in the news. Analyze “memory politics” using major theoretical approaches to memory and history: collective memory, psychoanalysis, trauma, nostalgia, and consumption. Place China in global context through case studies on colonialism, world war, and international espionage. Visit and interpret three Shanghai sites: the new Municipal History Museum, an Anti-Japan War memorial park, and a Cultural Revolution restaurant. Produce a portfolio of writing on sites and objects that invoke memory in China and beyond. Prerequisite: None.

GCHN-SHU 283

Reading and Viewing Modern China

This is a bilingual and 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. High competence in Chinese and instructor permission are required to take the course. Prerequisites: Advanced level of Chinese language; Instructor consent required.

GCHN-SHU 290

Topics in Global China Studies

Specific topics vary from semester to semester. Prerequisite: None.

GCHN-SHU 342

The Political Economy of East Asia

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: ECON-3 and SOCS-160.

GCHN-SHU 400

Global China Studies Senior Capstone Seminar I

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. Prerequisite: Senior Standing GCS Major

GCHN-SHU 401

Global China Studies Senior Capstone Seminar II

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. Prerequisite: Senior Standing GCS Major AND completion of GCHN-SHU 400.

RELS-SHU 9270

Religion and Society in China: Ghosts, Gods, Buddhas and Ancestors

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.

HUMN-SHU 168

Penning the Self(ie): Orality, Literacy, Digitality, and the Literary Subject

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 heroine whose story evolves from oral tradition, to written romance, to social media subject. Prerequisite: None

HUMN-SHU 185

Gender and Migration in Islam

This course provides an introduction to the development of gender in Islam as it relates to women's migration and movement across regions. We will analyze fiction narratives, poetry and plays that thematize the experiences of Muslim women as migrants. The migrant condition of women lends deeper insights into historical conditions such as imperialism, globalization, connected with themes like religion and religious beliefs. Prerequisite: GPS or lower-level Humanities Course

HUMN-SHU 200

Topics in Humanities

Check Albert for various relevant topics each semester.

HUMN-SHU 225

Topics in Asia-Pacific History Asia-Pasic History in the 20th Century

This course uses the geographic framework of the "Pacific Rim" to understand the historic connections between Asia and North America during the long 20th century. Traditionally, Asian history and U.S./ North American history have been treated as distinct areas of studies. While there is good reason for distinguishing these fields from one another, there are equally good reasons for looking at the intersection of them. Most importantly, history does not unfold within neat geographic boundaries. People, commerce, ideas, culture have all crisscrossed these geographic borders. To fully understand transnational history, then, we historians must also be willing to abandon tradition. This course examines the emerging historiography on the linkages between Asia and North America. We will pay particular attention to the movement of labor and capital, and to a lesser extent the exchange of ideas and culture. This emphasis on labor and capital reflects my own bias as a historian, and I welcome debate on how we think about the historical forces creating transpacific connections. The secondary themes are changes in identity and citizenship, reconfiguration of family, and the rise of transnational social networks, which are the result of labor and capital circulations. Prerequisites: None.

HUMN-SHU 229

Masters of Asian Cinema

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.

HUMN-SHU 240

Gender, Sexuality, and Culture

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.

HUMN-SHU 366 (formerly 266)

Shanghai Stories

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.

HIST-SHU 126

World History: Part I

This course examines the emergence of world societies and the interactions between them from prehistoric times to about 1450CE. A comprehensive study of specific periods and regions will be followed by an in-depth analysis of primary sources and cross-regional contacts.

HIST-SHU 130

Foundations: What is History?

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.

HIST-SHU 145

Food & Drugs in Chinese History

The goal of this course is to examine Chinese society and culture through the lens of the consumption of food and drugs and to elucidate the central role played at different times by food and drugs in Chinese culture and its representations. We examine the role of food and drugs 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 and drugs, restaurants and catering; famine; imperial dining practices; tobacco smoking; opium smoking, cultivation, and elimination; the Opium Wars; and food, drugs, and identity, including the global association of China with food and with opium.

HIST-SHU 153

History of Modern China Since 1840

This course covers the history of China focusing on the past two centuries and especially the 20th century, when China underwent several major revolutions. We will follow chronologically the development of China starting with the foundation and consolidation of its last major dynasty, the Qing in 1644, moving through the collapse of the dynastic system and the rise of the first Republic of China in 1912, continuing through the Nationalist Revolution of 1927, and ending with discussions of the formation and development of the People's Republic of China since 1949. Large themes that run through the course include the impact of Western colonialism on China, the role of internal rebellions and wars in giving rise to new political and social formations, the impact of Japanese aggression on China's state and society, the Nationalist and Communist Revolutions, and the endurance of the centralized Chinese state. Two excursions to historic sites in Shanghai will reinforce students' knowledge and understanding of the subject matter while also highlighting the important role of Shanghai in modern Chinese history.

HIST-SHU 179

History of Modern China in a Global Context

This course situates changes in China since the 1800s in a world and global context. Through reading primary texts and secondary studies, students will explore how the process of empire-making, global capitalist expansion and anti-capitalist revolutions, and liberalization shaped the social, cultural and political changes in modern China since the 1800s. This course is also designed to help develop skills including identification of primary and secondary sources and critical analysis and evaluation of primary and secondary sources. This is a writing and reading intensive course. Students are expected to learn through careful reading, engaged discussion, and writing/testing assignments. All the readings are in English, and the course presumes no previous knowledge of China. (fulfills NYU Shanghai SSPC Core Curriculum).

HIST-SHU 208

War and Peace: Europe Since 1900

This course will provide a broad introduction to the political, social and cultural history of Europe since 1900. The location of the most violent conflict in human history during the first half of the twentieth century, Europe's postwar development was based on a principle of peace through prosperity and the political ideal of an 'ever closer union'. In recent years, however, the combined economic and migrant crises have put this postwar consensus to a test. Taking the continent's delicate union as its central concern, the seminar will familiarize students with key themes, methods and problems in Modern European History. Structured chronologically, individual sessions will examine European modernity and fin-de-siècle culture; empires and colonialism; the causes, experiences and effects of the First and Second World Wars; the Holocaust; Europe's role in the Global Cold War; the crisis-ridden 1970s; and the crucial question of whether a distinctive European identity has developed over time.

HIST-SHU 225

The Global Space Age

Over the course of the twentieth century the infinite void that surrounds planet Earth has stimulated the human imagination as never before. For several decades, anticipation of human spaceflight was intimately bound with futuristic visions of techno scientific 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.

HIST-SHU 226

5000 Years of Chinese History: Fact or Fiction?

Nowadays, the notion that China looks back on 5,000 years of history seems to be common knowledge. At first one might wonder: what is so special about that? There have been many advanced civilizations in ancient antiquity: Egypt, Babylonia, Greece, the Roman and Aztec empires are but a few examples that immediately spring to mind. On closer inspection, though, it is quite obvious that all of these civilizations have one thing in common: they no longer exist! China and Chinese culture, on the other hand, is still alive and kicking. It is the only civilization on the planet that claims to have developed for five millennia without interruption. But, is this really true? And, more importantly, where exactly does such an assertion come from? These are but two questions this course is going to address. Some readers might dismiss them as quixotic musings of an early China specialist. They would be utterly wrong, however, to assume that these issues have no relevance for modern-day China. Precisely because Chinese culture survived for such a long time many contemporary habits are firmly rooted in ancient traditions, whether we are aware of it or not. Since most of us are largely ignorant of the actual repercussions of China's enduring history, this course ultimately aims at disclosing them. This means that we are going to analyze historiographical records and compare them with archeological evidence. In order to get a sense how history was perceived at various historical stages, we are also going to spend some time with commentators of early Chinese texts. Finally, we will, of course, try to figure out how the practice of historiography and archeology influences the China we all live in – for the moment at least – today.

HIST-SHU 250

China at the Center? An Exploration of Chinese Foreign Relations

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.

HIST-SHU 302

History of Water

While global citizens have long been concerned about conserving and rationing our use of fossil fuels, the same cannot be said for an even more precious resource – water. Only in the last few years have government agencies, NGOs, and the market begun to tackle the problem of dwindling water resources. The current statistics and projections are dire. If we do not come up with new technologies to conserve water and use it more efficiently, more people will be without clean water or enough food. The United Nations estimates that by 2030 as many as 4 billion people will not have access to enough water for their basic needs. During the course of this semester we will read about both contemporary issues that affect us as well as look at the historical context in which these problems developed. We will use case studies as a method for discussing these issues. Case Studies will include: the United States, in particular the American West and New York City; Early Modern Venice and Egypt, and modern day African and China.

HIST-SHU 303

Histories and Politics of Noise

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.

HIST-SHU 312

China Encounters the World

This is a lecture course on China's encounters with the world in the late 19th and 20th centuries. The course analyzes the age-old Chinese "Central Kingdom" self-image and how the image was overturned during modern times in face of Western and Japanese challenges; it explores the Chinese "victim mentality" and its impact on China's modern international experience; it examines China's foreign policy issues in the context of its political, economic, social and cultural developments in broader terms; it also pays special attention to the role of "human agencies" in the shaping of historical processes. 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." Prerequisites: None.

HIST-SHU 313

China Goes Global

The course, combining question-oriented lectures, seminar-style discussions, and interactive reading, examines China's "prolonged rise" by putting it into the larger context of its 20th-century "going global" experience characterized by crises, wars, revolutions and, finally, unprecedented reforms. The course will highlight the tortuous trajectory of the most important bilateral relations of our age—Chinese-American relations—and how and why it has been profoundly related to China's going global experience. It will also explore what driving forces and dynamics has generated China's rise, why it has to be looked upon as a complicated and prolonged process, and what opportunities and challenges it has presented to both China and the 21st-century world, and how they might be dealt with. Prerequisites: None

HIST-SHU 329

Futures of the Twentieth Century

The present is only one possible outcome of the many ways in which it has been imagined in the past. While historians usually do not aim to predict the future, they have become increasingly interested in how societies and cultures projected their development in the past. While such scenarios are often fascinating in themselves, they are of particular historical interest as gauges and indicators of how societies understood themselves and evaluated their then present conditions. Largely chronologically organized, this course explores the future's multifaceted history in twentieth-century Europe and the United States, from the emergence of 'scientifiction' in the 1920s to the 'end of utopia' during the crisis-ridden 1970s. Particular attention will be paid to 'enhancements' of the human body, futuristic technologies (flying cars, time machines, computers) and human habitats (the classless city of tomorrow, underwater settlements, space colonies).

HIST-SHU 341

European Religion from the Reformation to the Enlightenment

European Christendom exploded in the sixteenth century, creating a fragmented and fractious religious landscape that still marks Europe (and Christianity worldwide) to this day. In this undergraduate lecture course, students will examine the significant changes European Christendom experienced between the Protestant and Catholic Reformations through the Enlightenment, and will explore the impact of new religious dogmas, beliefs, practices, and institutions upon the broader order of European politics, society, and culture. The readings, which consist of both primary and secondary sources, will demonstrate that the religious changes in this period shaped not only the thinking of theologians and clergymen, but also affected the everyday lives of people throughout Europe. Furthermore, the course will examine how various denominations of European Christianity participated in Europe's commercial, colonial, and imperial projects in the Americas, Africa, and Asia. Students will thus also consider the interactions, both within and beyond Europe, between European Christianity and other world religions.

LIT-SHU 101

Foundations: What is Literature?

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. Prerequisites: None.

Lit-SHU 200

Topics in Literature

Check Albert for various relevant topics each semester.

LIT-SHU 226

History of Chinese Cinemas

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 film 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. (This may be used as a survey course in the Humanities.)

LIT-SHU 246

Introduction to Gender and Feminism in African Literature

This course introduces students to gender, sexuality and feminism in African literatures. It examines literary expressions of women's social, economic and spiritual experiences in both local and transnational contexts in Africa. Through close readings and literary analyses of a geographically and linguistically diverse selection of established and emergent African fiction, students comparatively analyze literary examples of women's experiences. These experiences are read in light of theoretical concepts on feminism and gender in Africa to understand the intersection of women's experiences with such broader historical and geographical phenomena as imperialism or colonialism and postcolonialism, transnationalism and globalization.

LIT-SHU 253

Comparative Islamic Feminisms

This course provides an advanced understanding of Muslim women's experiences in a transnational and global network of societies and politics. We will examine Muslim women's relationship with Islam—Islamic practice, habits, rituals, culture and customs—in postcolonial fiction. Within a broad regional and thematic foci we will emphasize the transnational nature of Muslim women's engagement with Islam as protagonists in this fiction travel outside their homelands and reside in diasporic communities. We will examine their negotiations of a variety of situations in foreign cultures with their personal faith; aspects of the foreign culture they are able to reconcile with and ones they find difficult to adapt to, among other questions that help us understand Muslim women's spiritual experiences transnationally. Prerequisites: Successful completion of Perspectives on the Humanities.

PHIL-SHU 40

Ethics

Examines fundamental questions of moral philosophy: What are our most basic values, and which of them are specifically moral values? What are the ethical principles, if any, by which we should judge our actions, ourselves, and our lives?

PHIL-SHU 70

Logic

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.

PHIL-SHU 76

Epistemology

Considers questions such as the following: Can I have knowledge of anything outside my own mind—for example, physical objects or other minds? Or is the skeptic's attack on my commonplace claims to know unanswerable? What is knowledge, and how does it differ from belief? Prerequisite: None.

PHIL-SHU 80

Philosophy of Science

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?

PHIL-SHU 91

Philosophy of Biology

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.

PHIL-SHU 105

Introduction to Chinese Philosophy

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. Prerequisites: None

PHIL-SHU 130

Philosophy of Technology: Thinking Machines

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: Students must have completed one full year of study.

PHIL-SHU 150 (formerly HUMN- SHU 203)

Central Problems in Philosophy

Albert: This course is an introduction to the problems and methods of contemporary philosophy. Topics may include: 1. What is the relationship between mind and body? 2. Can belief in the existence of the external world be justified? 3. Are there any good arguments for the existence of God? 4. Can we act freely if everything that we do is determined by laws of nature? 5. Is there a theory of how we ought to live? Prerequisite: None.

PHIL-SHU 200

Topics in Epistemology

Check Albert for various relevant topics each semester.

Interactive Media And Business

IMBX-SHU 101T

Topics in IMB: Life Design

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.

IMBX-SHU 102T

Topics in IMB: Global Experience Design

This course is about designing your global experiences. Students are introduced to design thinking as a practical tool to make the most out of their NYUSH experience and prototype opportunities offered by NYU's Global Network. This course will use rapid prototyping methods to test out academic and career interests, visit global organizations in Shanghai, and meet with leaders with multinational experience. The course will be delivered in a studio setup with in-class design workshops that explore topics such as the purpose of college, educational wayfinding, global perspectives, and innovating on career paradigms.

IMBX-SHU 103T

Topics in IMB: Understanding Financial Technology

"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.

IMBX-SHU 211

Design Thinking (Formerly BUSF-SHU 211)

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: None

IMBX-SHU 232

Entrepreneurship Explored (Formerly 232)

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

INTM-SHU 101 Interaction Lab

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: variables, conditionals, iteration, functions, arrays and objects, will be explored using the Processing programming language. Processing has a simplified syntax and 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 not simply use that which has been provided to them. 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

INTM-SHU 110 Application Lab

Students in this course will be exposed to current trends and provocative topics at the intersection of interactive media and business, and they will be asked to produce project-based responses to the challenges posed to them by guest speakers, through readings, and as a result of critical dialog. User experience design, agile development strategies, rapid prototyping techniques, Web and programming fundamentals, and rapid mobile application development frameworks will be the focus of the first half of the semester. HTML, CSS, and JavaScript (including: variables, conditionals, iteration, functions, arrays, objects and data structures) will be introduced. The role and value of collaboration will be better appreciated as students learn to face the challenges associated with group work. The Arduino microcontroller platform, open source and other emerging business models, Internet of Things (IoT) platforms, and user acceptance testing will be the vehicles for student exploration in the second half. Students will be expected to produce midterm and final projects that combine their newfound understanding of the diverse topics introduced to them. Prerequisites: None

INTM-SHU 120 Communications Lab

In this foundation course, designed to provide students with a framework to effectively communicate through digital means, students will explore the possibilities of digital media by successively producing projects that make use of digital images, audio, video, and the Web. Students learn in a laboratory context of hands-on experimentation, and principles of interpersonal communications, media theory, and human factors will be introduced in readings and investigated through discussion. Students will learn the principles of digital imaging, recording and editing audio and video, and the basics of fundamental web languages HTML, CSS and JavaScript, in order to establish a diverse digital toolkit. Both traditional and experimental outputs, including online and interactive media platforms, will be explored. Weekly assignments, group and independent projects, as well as project reports and documentation will be assigned in each of the core areas of study. Prerequisite: None

INTM-SHU 201T Construction of Authenticity in Contemporary Art

The possibility of truth telling has been challenged and debated throughout the history of art and across various genres. What does it mean to tell the truth in art? How does art cross the boundaries between the real and the fake, truthfulness and misrepresentation? This course will examine social engagement in art and the construction of authenticity in creating works based on trust rather than the truth and will investigate a variety of artistic sources and genres including, but not limited to, propaganda, documentary, video art, public art, and installation art. Students are expected to develop projects demonstrating a comprehensive understanding of the subject. Prerequisite: Interactive Lab, Communication Lab, Application Lab or permission of instructor.

INTM-SHU 202T Media Architecture

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 the media cityscape (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

INTM-SHU 203T Exploring Movement Practices with Physical Computing

People use their bodies in the workplace whether they are dancers or athletes, managers or engineers. Physical well-being, 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. We will also explore the questions above through readings, presentations, knowledge-sharing sessions and review of existing creative projects in this area. If you do parkour, dance, soccer or any other movement practice - you have an opportunity to explore that in depth. Or you could pursue a project around a more stationary physical experience, like sitting on a sofa. Prerequisite: Application Lab, Interaction Lab, Communications Lab, or programming experience.

INTM-SHU 204T

Critical Data and Visualization

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. Each week will include a lecture introducing contemporary theorists, artists, groups, and in-class discussions or exercises. Potentially there will be a guest speaker, too. Topic sections may include surveillance and privacy, data journalism and activism or automation and machine bias. What we cover will be complemented by reading and research assignments.

The other half of the week is a programming lab in which you will learn the fundamentals of web-based data visualization using JavaScript. Programming assignments will allow you to further practice what we learn.

Throughout the semester, you will work on three main visualization projects that are inspired by the theoretical subjects that we cover. The form of these projects will usually be a website. Successful projects feature data visualizations that are both playful as well as effective in conveying information and a reflection that links the practical work to the theoretical learnings. Prerequisite: Interaction Lab, Communications Lab or Application Lab

INTM-SHU 205T

The Artificial: Programming and Planetaryity

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 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 midterm exam and final project/ paper based on topics agreed upon in consultation with the Professor. Prerequisite: Writing as Inquiry.

INTM-SHU 205

What is New Media?

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, corporeal, and artistic contexts. By course's end, students will be able to research, think and write critically about some of the central issues in media theory. Prerequisite: Writing as Inquiry.

INTM-SHU 208D

Realtime Audiovisual Performance Systems

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 realtime 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: None.

INTM-SHU 214

User Experience Design

User Experience Design (UXD) is a design process focused on producing interactive products and systems that provide a high level of satisfaction to users through concern for human factors such as ergonomics, accessibility, and usability. User experiences unfold over time, and can be crafted to an extent, however a user's will and other unpredictable circumstances together shape the final outcome. Students in this class will critique existing projects, products, and services, and learn to create more successful user experiences based on real-world development processes, in addition to the application of industry standard techniques and tools. Students will create design concepts and mockups, develop user personas, wireframes, user experience sketches and flows, and ultimately video prototypes. While UXD principles are most often used to create commercial products such as hardware devices and software applications, the concepts and skills prove equally useful in the development of participatory art and performance projects.

INTM-SHU 215

Machine Learning for New Interfaces

Machine Learning for New Interfaces is an introductory course with the goal of teaching machine learning concepts in an approachable way to students with no prior knowledge. Learning and teaching Machine Learning can be a daunting task. This class seeks to reverse the conventional methods of teaching Machine Learning by applying a more friendly and approachable style, masking the complexity of the concepts and technologies. Students will learn fundamentals of programming first. Then they will use existing machine learning models (pre-trained) and apply them to their own ideas and outputs, similar to the way we utilize physical sensors in Interaction Lab or devices such as Leap Motion and Kinect without a full understanding of its construction or blueprint. Directly experiencing these diverse pre-trained models and techniques, they will apply, step by step, the fundamentals and core concepts of Machine Learning. Throughout the course, students will gain the skills to develop meaningful and effective user interactions. By utilizing diverse methods of motion tracking by the models, they will create innovative and interactive interfaces on the web or mobile platform. Both practical and creative applications are to be investigated as students are challenged to design their own solutions. Prerequisite: Interaction Lab, Communications Lab or Application Lab.

INTM-SHU 216

Unsustainable Fashion

This course encourages students to reflect on the current design practices in the fashion industry and explore the concept of sustainability through the lens of ethnography. This methodology curates an ethical understanding of human-engaged research approach to investigate contemporary design production and consumption practices at a systemic level. As critics of unsustainable practices and enthusiasts for sustainable development, the students will explore factors involved in the business of fashion and approaches to designing solutions through the use of sustainability frameworks for challenges identified as part of their inquiry process. A visit to YiWu, one of the world's major consumer goods manufacturing capitals, would further help in developing an understanding of mass production and consumption practices. The lectures and case studies are aimed to increase critical understanding and awareness of the importance of sustainability not as an individual concept but throughout the lifecycle process. The guest speaker and in-class workshops will facilitate a hands-on approach towards the intended design outcome. This course is a conceptual and production class which will involve a design intervention group project with either a problem solving or awareness raising approach, weekly in-class topic presentations and reading responses.

INTM-SHU 221

Creating Immersive Worlds

This introductory course will focus on building virtual worlds and understanding what makes them compelling experiences for others. Throughout the course, students will become familiar with critical concepts such as play testing and object-oriented programming in addition to developing proficiency in software tools such as Unity (3D game engine), Blender (3D modelling), Adobe Photoshop (texturing) and GitHub (source code control). Students will work in collaborative teams to create interactive virtual worlds.

INTM-SHU 222

Introduction to Robotics

People have long 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. 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. 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. By the end of the course, students will present a short research paper and documentation about their robotic explorations. Prerequisite: Interaction Lab or Communications Lab as prerequisite or co-requisite. Prerequisite or Corequisite: Application Lab, Communications Lab or Interaction Lab

INTM-SHU 223

Programming Design Systems

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: Communications Lab.

INTM-SHU 226

Artificial Intelligence Arts

Over recent years, artificial intelligence creativity and generative machine learning have continued grow and attract much attention among art community. Generative models by Machine Learning have brought up new types of media creation including recent breakthroughs.

INTM-SHU 230

Topics in Computation & Data

Check Albert for various relevant topics each semester.

INTM-SHU 235

Topics in Art & Design

Check Albert for various relevant topics each semester.

INTM-SHU 235A

Topics in Art & Design: Exhibition Next

What is an exhibition in a museum of today and how should it be experienced? What is its role in society? How does it engage the audience of tomorrow? This class will explore how emerging technologies can be applied to museum and exhibition design to enhance a museum visitors' experience. Class discussions will include topics and themes such as curatorial practices, public space, content and form, audience and environment, meaningful interfaces and interactive experiences in a museum context. The course will begin with visiting and immersing students in various museums, art spaces, and exhibitions in Shanghai. Students will explore and research on the functions of a museum as an institution to public audiences. Through museum visits, students will write observations of each trip based on their own experience to design a "better" museum or exhibition as their final project. Students will work in a team or individually to design their own exhibition through the design process of submitting a museum proposal, building a demonstrated diorama and writing a museum manifesto, etc. By the end of the course, students will install and present their work in various mediums. Prerequisite: None.

INTM-SHU 236

Topics in Art & Design Design & Fab. Everyday Things

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 behaviour 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. The overall goal of this course is to help students be an active part of the design process. Through use cases, design critique and in class workshops, students will build a fundamental understanding of design and through in-class tutorials, live demonstrations and access to digital fabrication tools, students will be able to realise their ideas into tangible, tactile objects based on insight and research. Satisfies: IMA Elective: Art & Design. NYU New York and NYU Abu Dhabi students: please check information from <https://shanghai.nyu.edu/study-away/summer-courses>.

INTM-SHU 238

Toy Design and Prototyping

The emphasis of this class is on designing toys for play and entertainment, however 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. Students will be introduced to the essential concepts in designing toys and they will create their own by utilizing hand-making craft skills and new technologies. This course will equip students with a basic knowledge about various design topics, including: brainstorming; sketching; graphic design; concept development; 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. Prerequisite or Corequisite: Interaction Lab

INTM-SHU 239

Digital Fabrication

Digital Fabrication is the process of using design of 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 or Corequisite: Application Lab, Communications Lab or Interaction Lab

INTM-SHU 241

Creative Learning Design

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 creativity, interactive technologies, user-centered design & engagement, scaffolded learning, creative learning, pedagogies of play and making, and educational entrepreneurship in Chinese contexts will also be explored. The market for creative educational experiences in afterschool settings for youth in China is exploding. For-profit educational service companies are competing and searching for differentiated, learning experiences in music, coding, and creative project based learning that will attract high-paying parents looking for the best supplemental education for their children. 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 music and technology to facilitate creative learning? 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 (e.g. Alibaba's Cloud Valley), local afterschool programs (e.g., Music Lab), and cultural partners (e.g., Shanghai Symphony). Together they will assess the needs and opportunities of partner students and teachers, and engage in a two-stage iterative and 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.

INTM-SHU 245

Topics in Electronics & Physical Computing (2 credits)

Check Albert for various relevant topics each semester.

INTM-SHU 246

Topics in Electronics & Physical Computing (4 credits)

Check Albert for various relevant topics each semester.

INTM-SHU 248

Introduction to Assistive Technology

Assistive technology is a term that includes a wide variety of technologies for people with disabilities. This two-point survey course is designed to provide students with an overview of the field of assistive technology. Field trips, readings, and guest speakers will provide students with an understanding of current research and development as well as processes used in determining appropriate technologies. Weekly assignments and a final research project. Elective Category: Art & Design. Prerequisite: None

INTM-SHU 252

The Minimum Viable Product

Increasing possibilities brought about by emerging forms of technology and decreasing costs of connecting people to things have not only enabled innovative human-centered design, but also opened the door to new business models and products. 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 7 week course, student 'co-founders' will conceive of and produce a new media, physical or technology product designed to delight their customers while also allowing them to accelerate and validate a business model. Students will 'get out of the classroom' and put these products into potential customers' hands. 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: None

INTM-SHU 255

Topics in Business of Emerging Media

Check Albert for various relevant topics each semester.

INTM-SHU 255-002

Programmable Trust: Blockchains.

INTM-SHU 260

Topics in Electronics & Physical Computing.

Check Albert for various relevant topics each semester.

INTM-SHU 260

Topics in Electronics & Physical Computing: Working With Electrons

This course focuses on using existing knowledge about electronics in order to design and fabricate circuits. It will cover technology that is commonly used in consumer electronic. We will have guest lecturers who will bring insights about the local ecosystem in China and that will share the most current techniques, like the flexible printed circuit boards used in wearable devices. Students will first experiment with analog signals, learning from them. In a second section of the course, they will utilize gates to make their own digital logic. The last part of the course will go over the design, simulation and prototyping of circuits. Participants will have by the end of the course all the resources to create their own original circuit in their final project. Their work will be assessed by their documentation blog, online quizzes and a final project. Students will acquire a working knowledge of components like capacitors, diodes, power supplies, transistors and logical gates. At the same time they will become familiar with tools like hot air soldering equipment, oscilloscopes, function generators and techniques used to simulate, design and manufacture circuits. Prerequisite or Corequisite: Interaction Lab.

INTM-SHU 265

Topics in Digital Humanities

Check Albert for various relevant topics each semester.

INTM-SHU 266

Digital Heritage

This course investigates and explores the integration between cultural heritage and digital conservation (de-noise through digital sculpting, laser scanning, photogrammetry, infographics,...etc.), specifically towards the objects, deities, and sites of China. Through the reflection of Chinese cultural heritages under technical perspective, the course raises the awareness of heritage conservation and critical heritage studies. Prerequisite: None

INTM-SHU 267

The Cultivated City

This class examines the religious and philosophical idea and practices of cultivation. It does so by investigating a range of material, including the urban garden traditions of the Jiangnan region, the Buddhascapes of the modern city, Taoist inner alchemy and new Confucian thought. This conceptual analysis is then used as a basis for researching the urban ecology of Shanghai, both as a past and future city. Cultivated City aims to interrogate the nature-culture split. The idea that nature (including human nature) is improved or enhanced by cultivation challenges an entrenched dichotomy, which views nature in its ideal state as wild and unspoilt, and existing in opposition to 'cultural construction'. Instead, the class explores novel ways of integrating the 'natural' and 'urban' environment. Cultivated City combines theory with practice. It uses the tools of interactive media (audio, video and cartographic technologies) to research, map and narrativize the ways in which architects, designers, artists and intellectuals engage with the traditional art and practices of cultivation in order to imagine and recreate the future metropolis. Prerequisite: None.

INTM-SHU 268

Acoustic Ethnography of the Yangtze River Delta

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 them 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 vs. 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 transform it into an analytical or creative project integrating, sound art and text. Prior knowledge to sound editing and Chinese language is not required. Prerequisite: None.

INTM-SHU 271

Remade in China

The global economic system has been producing social inequality, exploitation of cheap labor and incredible amount of waste. China and the United States are listed as the largest economies in the world, as well as the countries that generate most waste. Re-make: make (something) again or differently. In this class students will investigate why China has become 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. Prerequisite: Interaction Lab, Communications Lab, or Application Lab.

INTM-SHU 280

Topics in New Media & Entertainment

Check Albert for various relevant topics each semester.

INTM-SHU 280C

Topics in New Media & Entertainment: VR/AR Fundamentals: A Practical Guide to Big Ideas

Virtual Reality and Augmented Reality represent visions of "immersion" through the use of various channels such as visual, audio, haptic, and even smell and taste (and maybe mind). 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 artform, 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 perspectives. We will overview such basic elements resolution and fidelity; spatiality and immersion; extra 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. In addition to "big ideas," VR / AR Fundamentals aims to contribute to "a practical guide" by collectively producing a series of timely and relevant "studies," all short, entertaining, and useful to others exploring the world of VR / AR. Prerequisite: None.

INTM-SHU 280E

Topics in New Media & Entertainment: Aesthetics for New Realities

A workshop course in which teams of students will develop new works by exploring how new forms of media such as virtual, augmented and mixed reality are platforms for new aesthetic possibilities. Digital cinema, computer games, virtual reality and augmented reality share many common methods in the production of their content, with default assumptions about how they differ from each other. Approaching this as a range of expressive possibility gives a basis for more original and thoughtful approaches, including those that are less defined by existing categories as well as those that are more innovative within categorical norms. New ways of making cinema should lead to new kinds of expressions, while the emergence of virtual reality needs aesthetics that evoke more of its possibilities than the recapitulation of cinematic story-telling or video game interactivity. This class will use an iterative process of ideation and prototyping as it engages and develops the methods of narrative, interactivity, immersion, experience, imagination, spatiality and temporality. Readings and lectures will provide context with the history of art, literature, music. Prerequisite: App Lab, Comm Lab, Inter Lab, Creating Immersive Worlds or AR/VR Fundamentals.

INTM-SHU 283

Locative Media

With the rise of mobile computing platforms such as smartphones and tablets, location has 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 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 investigate geocoding, geotagging, and geofencing through the application of JavaScript mapping platforms, and through 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 then produce as a final project, a game that engages participants in a location or locations physically or technologically. Note: This is an online course featuring both synchronous and asynchronous learning opportunities. Note: This course is an online course. Registration for this course is limited to IMA Majors studying at the Global Sites. Prerequisite: Communications Lab.

INTM-SHU 284

Digital Sculpting for Facial Animation

This 14-week course breaks down into 4 stages : 1. basic topology of head model (student's profile photos as reference), 2. high-poly sculpting and projection texturing, 3. blend shapes animation, 4. final project. In the final project, students get to choose either lip-sync animation or conceptual piece utilizing the created head models. The course covers digital modelling / sculpting techniques including polygonal modelling, digital sculpting and blend-shape facial animation. Overview of digital editing / compositing and sound design will also be introduced to assist with students' final project at the end of the semester. Category: New Media & Entertainment. Prerequisite: None

INTM-SHU 285

Seminar Topics

Check Albert for various relevant topics each semester.

INTM-SHU 287

NIME: New Interfaces in Musical Expression

This course will focus on designing, creating and performing with musical instruments that utilize recent discoveries in interactive media in order to explore the limits of human expression. Over the semester, students are asked to research examples of contemporary work by creators of musical interfaces and discuss a wide range of issues facing technology in the performing arts. Readings and case studies will provide background for class discussions on the theory and practice of designing gestural controllers for musical performance. Students will invent and prototype a complete system encompassing musical control, mapping input to sound, and the creation of sound itself. Interaction Lab is a prerequisite, but prior performing experience is not required. The performance discipline, being an inherently collaborative arena, places heavy emphasis on teamwork. An open mind to work with other artists, technologists and creative leaders is a must. The class will culminate in a performance where students will play their instruments live. Prerequisite: Interaction Lab.

INTM-SHU 288 Kinetic Interfaces

Students in this course will use computer vision and motion tracking tools and techniques to create kinetic interfaces that exploit the body's capacity for movement to control software and hardware systems. The applicability of kinetic interfaces to practical as well as creative applications will be investigated as students are challenged to design their own solutions. Webcams, the Leap Motion Controller and the Microsoft Kinect will all be considered as input devices. Students will be introduced to the topics of pixel manipulation, as well as face, hand, blob and skeletal tracking. And Projection mapping, a technique that turns surfaces within an environment into dynamic display surfaces, will be explored as an output method. New Category: Physical Computing & Experimental Interfaces. Prerequisite: Application Lab, Communications Lab or Interaction Lab.

INTM-SHU 295 Seminar Topics

Check Albert for various relevant topics each semester.

INTM-SHU 400 Capstone Studio I - Interactive Media Arts

Capstone I is the first of two classes that give students the opportunity to research, design, make and test an individual interactive media project. Students will work independently (with faculty guidance) to research and write the first half of a Project Proposal to contextualise their ideas. In addition to this, students will also develop a functional proof of concept of their final project that will be tested with participants and also presented to a group of peers and faculty. Prerequisite: Senior Standing

INTM-SHU 401 Capstone Studio II - Interactive Media Arts

Capstone II is the the second of two classes that give students the opportunity to research, design, make and test an individual interactive media project. Students will work independently (with faculty guidance) to research and write the final half of a Project Proposal. In addition students will build on their existing projects from Capstone I to further develop their work into a final project that will be tested with participants and presented to a group of faculty and peers. Prerequisite: Senior Standing, Completion of Capstone I (INTM-SHU 400)

MATH-SHU 9

Precalculus

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 are also covered. Prerequisite: Placement via NYUSH mathematics placement exam.

MATH-SHU 10

Quantitative Reasoning: 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, proofs, 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. For students in Humanities

MATH-SHU 121

Calculus I

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.

MATH-SHU 131

Calculus

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: Placement via NYU SH mathematics placement exam or a grade of C or better in MATH-SHU 9 (Precalculus).

MATH-SHU 140

Linear Algebra

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 or Co-requisite: Grade of C or better in Math-SHU 131 or 201.

MATH-SHU 141

Honors Linear Algebra I

This is the first semester of a 2-semester course in linear algebra for advanced mathematics majors. Topics covered include systems of linear equations, matrices, LU decomposition, determinants, vector spaces, linear independence, basis and dimension, subspaces and quotient spaces, linear transformations, eigenvalues and eigenvectors, Jordan canonical forms, inner products, orthogonality, quadratic forms, extrema of functions, and symmetric and positive matrices. Prerequisite: Placement on NYU SH mathematics placement exam. Co- or Prerequisite: MATH-SHU 201

MATH-SHU 142

Honors Linear Algebra II

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 of C or better in MATH-SHU 141.

MATH-SHU 151 (formerly 123)

Multivariable Calculus

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 of C or better in MATH-SHU 131. E

Networks and Dynamics

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 of C or better in MATH-SHU 131 OR 201 and MATH-SHU 140.

Honors Calculus

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: Placement via NYU SH Mathematics Placement Examination or MATH-SHU 131 Calculus with a grade of A- or better.

Honors Theory of Probability

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 approximations, random variables, probability distributions, generating functions, and Markov chains and their applications. Prerequisite: Grade of C or better in MATH-SHU 123 (Multivariable Calculus) and 140 (Linear Algebra). Not open to students who have taken MATH-SHU 235 (Probability and Statistics).

Mathematics of Statistics and Data Science Part 1

This course is the first part of an introduction to the mathematical tools of modern statistical analysis and of data-science. This class asks for a good prior understanding of probability theory, of calculus and of linear algebra. In this first part, we will cover the core concepts of statistics, both from the Bayesian and the classical or frequentist point of views. We will use the book by Larry Wasserman "All of Statistics". We will assume that Part I on Probability is known (Chapters 1 to 5), and cover Part II on Statistical Inference, and some of Part III on Statistical Models and Methods, i.e. the Bootstrap, Parametric Inference, Bayesian inference, Hypothesis testing, Statistical Decision Theory, Linear and Logistic Regression, and possibly a light introduction to Graphical Models and Classification. This class should be followed by a second class in the Spring 2019 centered on some of the mathematical questions raised by the high-dimensional aspects of statistics and data science, and in particular by machine learning. Prerequisite: Grade of B or better in MATH-SHU 151 (Multivariable Calculus), 140 (Linear Algebra) and 233 (Theory of Probability).

Probability and Statistics

This course comprises a combination of the theory of probability 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: Grade of C or better in MATH-SHU 131 (Calculus). Not open to students who have taken MATH-SHU 233 (Theory of Probability).

Mathematics of Statistics and Data Science Part 2

This course is the second part and continuation of an introduction to the mathematical tools of modern statistical analysis and of data-science. Pre-requisite: MATH-SHU 234 or Instructor Permission.

Mathematical Choice Theory

This course is a mathematical examination of the main ideas of decision theory, including game, auction, and social choice theory. Topics covered include strategic and extensive form games, existence and properties of equilibria (Nash, Bayesian, perfect, sequential, correlated), the expected utility maximization theorem, the core, auction and mechanism design under independent and interdependent values, the revenue equivalence theorem, voting models, Arrow's impossibility theorem, the Gibbard-Satterthwaite theorem, and implementation theory. We also discuss current applications of these ideas to bargaining agreements, auction design, and voting systems. Prerequisite: MATH-SHU 131 Calculus or 210 Honors Calculus. Not open to students who have taken MATH-SHU 233

Honors Theory of Probability and/or MATH-UA 234 Mathematical Statistics.

MATH-SHU 250

Mathematics of Finance

This course is an introduction to the mathematics of finance. Topics covered include bonds, interest rates and present value, options and contracts, arbitrage and replication, binomial models, conditional expectations and design of European options, stopping times and American options, random walks and Brownian motion, log-normal model of stock prices, Black-Scholes price formula, Ito integrals and stochastic differential equations, Black-Scholes theory. Prerequisite: MATH-SHU 123 (Multivariable Calculus) and 233 (Theory of Probability) or 235 (Probability and Statistics).

MATH-SHU 251

Introduction to Math Modeling

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. Prerequisites: Multivariable Calculus with a grade of C or better or permission of the instructor.

MATH-SHU 252

Numerical Analysis

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 of C or better in MATH-SHU 151 and MATH-SHU 140, or MATH-SHU 141 and MATH-SHU 329.

MATH-SHU 262

Ordinary Differential Equations

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 of C or better in MATH-SHU 131 and 140 or MATH-SHU 141 and 201.

MATH-SHU 263

Partial Differential Equations

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 of C or better in MATH-SHU 262 or 362.

MATH-SHU 265

Linear Algebra and Differential Equations

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. Prerequisites: Calculus OR Honors Calculus OR Multivariable Calculus.

MATH-SHU 282

Functions of a Complex Variable

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 continuations, and applications to fluid flow. Prerequisite: Grade of C or better in MATH-SHU 123 and MATH-SHU 140, or MATH-SHU 141 and MATH-SHU 329.

MATH-SHU 328 (formerly 202)

Honors Analysis I

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 of C or better in MATH-SHU 201.

MATH-SHU 329 (formerly 203)

Honors Analysis II

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 C or better in MATH-SHU 328 Honors Analysis I and MATH-141 (Honors Linear Algebra I).

MATH-SHU 345

Introduction to Stochastic Processes

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. Prerequisites: MATH-140 linear algebra and MATH-SHU 233 Honors Theory of Probability.

MATH-SHU 362

Honors Ordinary Differential Equations

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 of C or better in MATH-SHU 131 (Calculus) and 140 (Linear Algebra) or MATH-SHU 141 (Honors Linear Algebra I) and 201 (Honors Calculus).

MATH-SHU 377

Differential Geometry

This course investigates the differential properties of curves and surfaces. Topics covered include differential manifolds, tangent bundle, vector fields, differential forms, Stoke's theorem, Riemannian geometry, geodesics, and the exponential map. Prerequisite: MATH-SHU 329 (Honors Analysis II).

This course investigates the differential properties of curves and surfaces. Topics covered include differential manifolds and Riemannian geometry. Prerequisite: Grade of C or better in MATH-SHU 329.

MATH-SHU 997

Independent Study

Mathematics 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.

NEUR-SHU 10

Free Will and the Brain

"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: None.

NEUR-SHU 100

Math Tools for Life Sciences

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: BIOL-SHU 22 (Foundations of Biology II) or permission by the instructor.

NEUR-SHU 201

Introduction to Neural Science

An introductory lecture course covering the fundamental principles of neuroscience. Topics will 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 cerebral cortex; modeling of neural systems. Prerequisite: BIOL-SHU 21 BIOL-SHU 22 Foundations of Biology II

NEUR-SHU 210

Cellular and Molecular Neuroscience

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: CCSC-114 & NEUR-251.

NEUR-SHU 222

Perception

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 COURSES Introduction to Neural Science or Introduction to Psychology. The prerequisite can be waived based on the student's background. Contact the course instructor directly for this request.

NEUR-SHU 251

Behavioral and Integrative Neuroscience

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. Prerequisite: NEUR-SHU 201 (Introduction to Neural Science).

NEUR-SHU 261

Special topics: Neurobiology of Decision Making

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: NEUR-SHU 201 (Introduction to Neural Science) or permission by the instructor.

NEUR-SHU 265

Neural Bases of Speech and Language

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 developmental 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. Prerequisite: None.

NEUR-SHU 270

Introduction to Theoretical Neuroscience

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 1) or permission by the instructor. Graduates: Mathematical Tools for Neural and Cognitive Science (NEUR-GA.2201), or permission by the instructor.

NEUR-SHU 280

Special Topics in Neural Science

A seminar course providing in-depth treatment of an area of current interest neuroscience. Lectures will present background material and address current problems in the area related to the topic. Students will read and discuss review articles and current literature on the topic. Course content will be determined on a semester-by-semester basis. Possible topics include "Decision Making"; "Neurobiology of Learning and Memory"; "Signal Processing in Neural Networks"; "Intro to Computer Modeling of Neuronal Systems"; "Cognitive Neuroscience"; "Can Exercise Change Your Brain?"; "Molecular Mechanisms of Memory"; "Color Vision"; and "Neuroeconomics and Decision-Making." Prerequisite: NEUR-SHU 201 (Introduction to Neural Science) or permission by the instructor.

NEUR-SHU 302

Modeling & Simulations in Neuroscience

This course introduces students in neuroscience, and mathematics to the use of mathematical methods in modeling and computer simulation to investigate phenomena in neuroscience. The course material to be covered is models of electrophysiology of neurons and synapses, neural networks and examples, synaptic plasticity for memory and learning together with computer simulations. Mathematical tools in linear algebra and differential equations, and programming in Matlab is introduced as needed within the course. Prerequisites: NEUR-SHU 100 (Math Tools for Life Sciences) and NEUR-SHU 201 (Introduction to Neural Science. Familiarity with linear algebra, ordinary differential equation, and programming are recommended but not required. Prerequisites: Calculus, Mathematics for the Sciences or Network and Dynamics, or permission by the instructor. Familiarity with linear algebra, ordinary differential equation, and programming are recommended but not required.

NEUR-SHU 305

Special Topics: The Meaning of Natural Language. 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. Prerequisites: 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. (contact Professor Linmin Zhang - linmin.zhang@nyu.edu)

NEUR-SHU 401

Neural Science Honors Seminar

Students attend regular meetings to learn research basics and discuss recent advances in neuroscience and research related issues. Prerequisite: Students must have completed (or enrolled in) all remaining major requirements. Open only to students qualified and having been recommended by the Director of Undergraduate Studies for Neural Science.

NEUR-SHU 997

Independent Study I - Neural Science Capstone

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.

NEUR-SHU 998

Independent Study II - Neural Science

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.

Physics

PHYS-SHU 11

General Physics I

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. Prerequisite OR Co-requisite: MATH-SHU 131 or MATH-SHU 201

PHYS-SHU 12

General Physics II

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: PHYS-SHU 11

PHYS-SHU 71

FoS Physics Laboratory

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. Prerequisite OR Co-requisite: Physics I OR Found of Physics Honors I.

PHYS-SHU 91

Foundations of Physics I Honors

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. Prerequisite OR Co-requisite: MATH-SHU 131 or MATH-SHU 201.

PHYS-SHU 93

Foundations of Physics II Honors

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).

PHYS-SHU 94

Physics II Lab

This laboratory course is to accompany Physics II lecture PHYS-SHU 12. 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: Foundation of Physics I Laboratory (PHYS-SHU 71)

PHYS-SHU 95

Foundations of Physics III Honors

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. Prerequisite: PHYS-SHU 93.

PHYS-SHU 96

Foundations of Physics IV Honors

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. Prerequisite: PHYS-SHU 95.

PHYS-SHU 106

Mathematical Physics

Mathematics is the language of physics. In this course, students will understand the advanced mathematical methods most widely used in physics and extend their skills by practice. On completion, successful students will be able to understand and proficiently use (1) vector and matrix algebra, (2) ordinary and partial differential equations, and (3) functions of complex variables. The lectures serve as an introduction, and the real work of learning starts when you do the homework. 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 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. 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: MATH-SHU 265

PHYS-SHU 200

Optical Imaging: Applications in Biology and Engineering

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. Prerequisites: Physics 2 or Physics 2 for Honors.

PHYS-SHU 201

Topics in Introduction to Quantum Mechanics and Quantum Technology

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: MATH-SHU 131 or MATH-SHU 201

PHYS-SHU 251

Electricity and Magnetism

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. Prerequisite: (CCSC-114 or PHYS-95) & MATH-212.

PHYS-SHU 301

Quantum Mechanics

Designed to provide a rigorous mathematical introduction to quantum mechanics, this course covers the Schrödinger and Heisenberg description of quantum systems, application to basic atomic structure and simple boundary condition problems, quantum statistics, and perturbation theory. Prerequisite: (CCSC-114 or PHYS-95) & MATH-160.

PHYS-SHU 302

Statistical Mechanics and Thermodynamics

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

PHYS-SHU 303

Advanced Physics Laboratory

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: CCSC-114 or PHYS-95.

PHYS-SHU 314

Astrophysics

Introduction to modern astrophysical problems with an emphasis on the physical concepts involved: radio, optical, and X-ray astronomy; stellar structure and evolution; white dwarfs, pulsars, and black holes; and galaxies, quasars,

and cosmology. Prerequisite: PHYS-250.

PHYS-SHU 315

Nuclear and Particle Physics

The phenomenology and experimental foundations of nuclear and particle physics are explored in this course, with emphasis on the fundamental forces underlying particle interactions. Prerequisite: PHYS-250.

PHYS-SHU 997

Independent Study – Physics

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.

PHYS-SHU 998

Integrated Science Capstone

This course provides students with a completion of their undergraduate science education by applying the skills and knowledge they acquired over the course of their major 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: students must have completed (or enrolled in) all remaining major requirements.

PHYS-SHU 999

Physics Research in Shanghai.

CCSC-SHU 130

Introduction to computer programming with Mathematica

Mathematica is a powerful tool for technical computing. It provides a robust computing environment that is used in biology, chemistry, economics, engineering, finance, mathematics, physics, the arts, and a wide range of other fields. It is designed for symbolic as well as numerical calculations, and for visualization of technical information. Mathematica can change forever both what we teach and learn in the classroom, and how we teach and learn it. To provide students with the very best education possible, we need to bring it into our classrooms. The goal of this course is to empower students in the sciences, engineering, economics, finance, and even in the arts and humanities, to use symbolic and numeric computation, and thereby give them a tool (and a leg up) that they can use throughout their whole professional carrier. The course will include the following topics: A brief introduction to computer science and numerical methods, Mathematica as a sophisticated symbolic and numeric calculator, Wolfram Alpha – a computational database, programming in Mathematica and the concepts behind the language. Procedural programming, functional programming and rule based programming, parallel computing using multiple cores, dynamic interfaces (animation), precision and accuracy, working with units, vectors, matrices, calculus, differential equations, difference (recurrence) equations, optimization methods, image and video processing, audio processing, finance and economics applications, and software development. Students will complete a project that they will choose from within their own areas of interest.

SOCS-SHU 133

Urbanization in China

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.

SOCS-SHU 135

Environment and Society

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.

SOCS-SHU 136

Human Society and Culture

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. Prerequisite: None.

SOCS-SHU 141

Methods of Social Research

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. Prerequisite: None.

SOCS-SHU 150

Introduction to Comparative Politics

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. Prerequisite: None.

SOCS-SHU 160

Introduction to International Politics

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. Prerequisite: None.

SOCS-SHU 170

Introduction to Global Health

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. Prerequisite: None.

SOCS-SHU 185

The Relationship Between Government and Religion

This course examines the relationship between government and religion. To this end, the course concentrates on the interpretation, meaning, application, and wisdom of 16 words from the American Constitution: "Government shall make no law respecting an establishment of religion or prohibiting the free exercise thereof." These 16 words serve as a starting point for the course because they broadly prohibit government entanglement with religion while simultaneously bestowing government with the responsibility to protect religious freedom. The primary texts of the course are the opinions of the United States Supreme Court, the highest Court in the United States, and final authority on interpretations of the Constitution. Prior knowledge of the subject matter or the United States is not a prerequisite for this class. Application required.

SOCS-SHU 200

Topics in Social Science

Check Albert for various relevant topics each semester.

SOCS-SHU 210

Statistics for The Behavioral Sciences

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.

SOCS-SHU 230

Science in Environmental Policy

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.

SOCS-SHU 229

Capitalism, Socialism, Communism: Theory and Practice

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. Prerequisite: Successful completion of GPS, or instructor's permission.

SOCS-SHU 232

International Law and Institutions

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. Prerequisite: SOCS-SHU 150 or 160.

SOCS-SHU 234

Image as Evidence

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.

SOCS-SHU 235

Global Perspectives on Migration and Ethnicity

Migration, both internationally and internally, has continually shaped notions of ethnicity in nearly every context in the world. Focusing on contemporary migration in China and immigration post-1960s in the US, as well as education as a facet of social mobility, this course serves as an introduction to different theoretical and empirical scholarship on migration and ethnicity. Topics include migrant adaptation/assimilation, social mobility, and the shifting construction of racial and ethnic categories.

SOCS-SHU 241

Cultures of Business and Work

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.

SOCS-SHU 245

Ethnographic Thinking

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. Prerequisite: None.

SOCS-SHU 248

Fraud

Scientific misconduct is valuable because it tells us something about the norms and values of scientific inquiry over time. When scientists make things up or act badly, it says as much about our collective expectations of and sensibilities about scientific practice as it does the personal shortcomings of a small set of actors. The course allows students to examine instances of fabrication, falsification, and plagiarism through a diverse set of case studies. The aim is to unravel the motivations and impacts of fraud, to better appreciate methodological and evidentiary practices even or especially when they go awry, and to consider how wrongdoing shapes perceptions of science in popular culture. The course uses a broad approach to the social study of science to interrogate primary and secondary sources in each case of scientific misconduct. Prerequisite: None.

SOCS-SHU 252

Ethics and Global Governance

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.

SOCS-SHU 253

Nature in Social Thought

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. Prerequisite: Successful completion of GPS, or instructor's permission.

SOCS-SHU 270

Social Change in Contemporary China

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: Successful completion of GPS, or instructor's permission.

SOCS-SHU 272

The U.S. Constitution: Is It relevant to China?

This course covers some basic political concepts and legal doctrines lying at the foundation of 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.

SOCS-SHU 275

US-China Relations

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: SOCS-SHU 160 is recommended, but not required.

SOCS-SHU 300

Topics in Social Science

Check Albert for various relevant topics each semester.

SOCS-SHU 300C

Topics in Law and Politics

Check Albert for various relevant topics each semester.

SOCS-SHU 306

Pestilence: Critical Perspectives in Global Health

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. Prerequisites: None.

SOCS-SHU 318

Ethnographic Methods

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. Prerequisites: None.

SOCS-SHU 319

Visual Anthropology

This seminar introduces students to the field of visual anthropology via both theoretical and practical approaches. Students gain basic skills of analyzing and producing visual ethnography to enhance their social science research toolbox. Class readings and discussions begin with foundational issues of the intricate relationship between visuality, epistemology, and politics, and then extend into reflections over the crucial ethical questions about the author's authority as well as reciprocity with the subjects. Through close readings of landmark film works in the field we delve into analysis of formalistic elements that are used to construct ethnographic films, in addition to getting a historical overview of their evolution. Students develop the skills necessary to engage in discussions of critical theoretical issues in the field, and work in groups to produce a short ethnographic film as a final project.

SOCS-SHU 331

Politics in China

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.

SOCS-SHU 333

Global Environmental Politics

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. Prerequisite: It is recommended, but not required, that students take SOCS-SHU 135 Environment and Society prior to enrolling in this course.

SOCS-SHU 334

Legal Psychology

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. Prerequisite: PSYC-SHU 101 Introduction to Psychology is a prerequisite for the course. This can be waived by the instructor for individual students based on background and preparation.

SOCS-SHU 339

Comparative Revolutions

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.

SOCS-SHU 340

Comparative Constitutions

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: SOCS-SHU 160 (Introduction to International Politics) or SOCS-SHU 150 (Introduction to Comparative Politics) or SOCS-SHU 272 (US Constitution—Is It Relevant to China?), or comparable courses relating to law or politics at other NYU sites, or equivalent preparation, or with instructor's permission.

SOCS-SHU 341

Cross-Strait Relations

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. Prerequisites: SOCS-SHU 150 Introduction to Comparative Politics or SOCS-SHU 160 Introduction to International Politics or GCHN-SHU 110 The Concept of China.

SOCS-SHU 350

Empirical Research Practice

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. Prerequisites: Intro to Psych OR Environment & Society OR Intro to Comparative Politics OR Intro to International Politics (Intro to Psych recommended).

PSYC-SHU 352

Psychology of Human Sexuality

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. Prerequisite: PSYC-SHU 101 Introduction to Psychology.

SOCS-SHU 360

Urban Sociology

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: SOCS-SHU 141 or SOCS-SHU 210 or SOCS-SHU 248 or SOCS-SHU 318 or SOCS-SHU 350 or instructor's permission.

SOCS-SHU 400

Topics in Social Policy

Check Albert for various relevant topics each semester.

SOCS-SHU 401

Social Science Capstone Seminar (4 credits)

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. Open only to Social Science majors in the senior year.

SOCS-SHU 410

Social Science Capstone Honors Seminar (2 credits)

This seminar prepares candidates for major honors in Social Science to enroll in the Honors Independent Study in the spring semester of the senior year. In this seminar, students develop a research question, select a methodological approach, assemble a working bibliography, and identify a faculty supervisor for the spring semester independent study. Open only to seniors who have been admitted to honors candidacy in Social Science.

SOCS-SHU 411

Social Science Honors Independent Study

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.

SOCS-SHU 420

Topics in Environmental Studies

Check Albert for various relevant topics each semester.

SOCS-SHU 421

Topics in Applied Air Quality Research

This independent study course provides students with an opportunity to work with Dr. Kevin Cromar on applied air quality research projects. Potential projects cover a wide range of disciplines including economics, computer science, electrical engineering systems, epidemiology, public health, policy analysis, graphic design, marketing, and environmental studies. Students are able to work in teams or individually based on interests and assigned project. No previous research experience is needed and successful students will have the opportunity for continued research opportunities with the Marron Institute at NYU. All projects will be part of ongoing research efforts at the Air Quality Program directed by Dr. Cromar. Interested students should contact the professor for more information.

SOCS-SHU 426

Poverty and Inequality Around the Globe

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. We consider philosophies of global justice and the ethics of global citizenship, and students are expected to critically reflect upon their own engagements with poverty relief activities and aspirations for social changes. Students should be prepared to tackle advanced social science readings, analysis, and writing. Open to seniors, and to other students with instructor's permission. There are no prerequisites for the class although students should be prepared to tackle advanced social science readings and analysis.

SOCS-SHU 430

Capstone Seminar: China and Politics

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.

SOCS-SHU 431

Capstone Seminar: Politics, Political Economy, and International Relations

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.

SOCS-SHU 432

Capstone Seminar: Psychology and Global Health

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.

SOCS-SHU 440

Topics in Anthropology

Check Albert for various relevant topics each semester.

SOCS-SHU 445

Topics in Society, Health & Medicine

Check Albert for various relevant topics each semester.

SOCS-SHU 460

Topics in Urban Studies

Check Albert for various relevant topics each semester.

SOCS-SHU 997

Independent Study

Check Albert for instructions.

PSYC-SHU 101

Introduction to Psychology

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.

PSYC-SHU 201

Social Psychology

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 Introduction to Psychology

PSYC-SHU 234

Developmental Psychology

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.

PSYC-SHU 329

Parenting and Culture

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.

PSYC-SHU 337

Adolescent Development

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, and PSYC-SHU 234 as a pre- or co-requisite.

PSYC-SHU 349

Cultures of Psychology

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.

PSYC-SHU 352

Psychology of Human Sexuality

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. Prerequisite: PSYC-SHU 101.

CHIN-SHU 10

Chinese Bridge Online-Elementary Level

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.

CHIN-SHU 20

Chinese Bridge Online-Intermediate level

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 if students fulfill the attendance requirement and homework requirement.

CHIN-SHU 101

Elementary Chinese I

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.

CHIN-SHU 101S

Elementary Chinese I - FoS1

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.

CHIN-SHU 101S2

Elementary Chinese I – FoS 2

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 102

Elementary Chinese II

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-101.

CHIN-SHU 102S

Elementary Chinese II FoS

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-101 or 101S2.

CHIN-SHU 102S2

Elementary Chinese II FoS 2

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 111

Elementary Chinese I for Advanced Beginners

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: N/A. This course is followed by Intermediate for Advanced Beginners.

CHIN-SHU 201

Intermediate Chinese I

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-102.

CHIN-SHU 201A

Intermediate Chinese I - Accelerated

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-102 or 102A; Co-requisite: CHIN-SHU 202A.

CHIN-SHU 201S1

Intermediate Chinese I - FoS1

This course is a specially-designed 2-credit intermediate-level Chinese course for students enrolled in Foundations of Science who have completed Elementary II. It covers the first half of the 4-credit Intermediate I course. Prerequisite: CHIN-102.

CHIN-SHU 201S2

Intermediate Chinese I – FoS2

This course is a specially-designed 2-credit intermediate-level Chinese course for students enrolled in Foundations of Science who have completed Intermediate I FoS1. It covers the second half of the 4-credit Intermediate I course. Prerequisite: CHIN-201S1.

CHIN-SHU 202

Intermediate Chinese II

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-201.

CHIN-SHU 202A

Intermediate Chinese II - Accelerated

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-201A.

CHIN-SHU 211

Intermediate Chinese I for Advanced Beginners

This course is designed for students 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-111 Elementary Chinese for Advanced Beginners. This course is followed by Advanced Chinese I.

CHIN-SHU 221

Chinese Immersion Program: Intermediate I

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 series talks, local visits, Chinese cultural classes, movie evenings, Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules or requirements. 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.

CHIN-SHU 222

Chinese Immersion Program: Intermediate II

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 series talks, local visits, Chinese cultural classes, movie evenings Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules or requirements. 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.

CHIN-SHU 301

Advanced Chinese I

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. Prerequisite: In addition to CHIN-202 OR CHIN-211.

CHIN-SHU 302

Advanced Chinese II

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. Prerequisite: CHIN-301.

CHIN-SHU 321

Chinese Immersion Program: Advanced I

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.

CHIN-SHU 322

Chinese Immersion Program: Advanced II

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.

CHIN-SHU 401

Classical Chinese I

This course is designed to give students an introduction to basic syntax, grammar, and vocabulary of Classical Chinese through close readings of authentic texts. Almost all these texts are historically significant canon texts that are extremely rich in classical Chinese cultural connotation. They are selected from a wide variety of genres, such as historical literature, philosophical and political writings, written correspondence, poetry, essay, some of which are unique to Chinese culture. The course aims to develop the students' reading and comprehension skills in this highly stylized form of written Chinese, acquaint students not only with the classic Chinese cultural heritage but also underlying working mechanism that is in many ways relevant to the form and usage of today's Mandarin Chinese. Prerequisite: CHIN-302.

CHIN-SHU 402

Classical Chinese II

This course continues the work begun in Classical Chinese I with the goal that students be able to read with reasonable facility original texts, included unpunctuated ones, from a wide variety of genres, including historical literature, philosophical and political writings, written correspondence, poetry, essays and official documents.

Prerequisite: CHIN-401.

CHIN-SHU 403

Readings in Chinese Culture I

Chinese language at fourth-year level. Designed to enhance Chinese proficiency through studying authentic materials rich in cultural connotations, focusing primarily on reading and writing. Objectives are: to develop language skills needed for semi-formal and formal presentation on academic topics; to further improve reading comprehension and develop skills needed to conduct textual analysis of passages with sophisticated syntax and semantic nuance; to develop responsiveness to and ability to interpret stylized usage; to advance strategies for autonomous learning of Chinese language from an analytical perspective. For the first part of this year-long sequence, reading materials will generally be selected from China's modern period (1919–1949). Prerequisite CHIN-302.

CHIN-SHU 404

Readings in Chinese Culture II

Designed to enhance Chinese proficiency through reading authentic materials rich in cultural connotations. Stresses primarily reading and writing. The objectives are: to develop speaking skills needed for semi-formal or formal presentation on academic topics; to develop specialized vocabulary; to further improve reading speed and develop skills needed to conduct textual analysis on and, on some occasions, translate texts with syntactical sophistication and stylistic nuance; to develop responsiveness to and ability to interpret linguistic features of different genres and writing styles; to advance strategies for autonomous learning of Chinese from an analytical perspective. Continuation of Chinese language at fourth-year level, with reading materials generally selected from contemporary sources. Prerequisite: CHIN-302.

CHIN-SHU 405

Reading Chinese Newspapers

This 4-credit course is a post-advanced Chinese language course, which meets twice a week, 90 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. Prerequisites: Advanced Chinese II or the equivalent.

CHIN-SHU 411

Introduction to Business Chinese and Culture

This course is designed for those who have studied Mandarin to the advanced level (or equivalent). It aims to continuously improve students' Chinese proficiency while, at the same time, preparing them for working more comfortably and confidently in a Chinese business environment. In recent years, along with the rapid growth of Chinese economy, issues on Chinese business and economy became a hot topic. To address this trend, authentic Chinese sources will be introduced in class to enhance students' professional Chinese and their understanding of China's macro and micro business environments as well as the past, present, and future of China and its role in the global economy. An approach placing more emphasis on case study is adopted along with task-based language teaching. The course will cover the first five chapters of the textbook which is developed surrounding five real-life business cases. These five companies are all multinational that have successfully operated in China by adapting their strategies to the special needs of the Chinese market. By reading, discussing, and performing communicative tasks related to those cases, students will learn how to use Chinese as a "carrier of culture", thus acquiring a better understanding of China in economic and, broadly defined, cultural terms. The case study will also inspire students to explore the Chinese consumers' interest and mentality, so that they will occupy a more qualified position to explore a successful road toward "doing business within China." For students who are interested in pursuing career opportunities in Mainland China or Hong Kong, the course will teach the proper ways to compose a Chinese resume while, at the same time, introducing related job interview skills. By the end of the semester, students are expected to: (1) expand business vocabulary and strengthen the communication skills in real business settings; (2) enhance the cultural awareness about China and the Chinese business world; (3) improve listening comprehension of authentic Chinese media materials; (4) improve reading, writing and translation skills of business terminologies and documents; (5) be able to use Chinese language software for certain business purposes. Class will be conducted in Chinese. Prerequisite: CHIN-301 and Instructor's permission CHIN-302.

CHIN-SHU 415

Introduction to Contemporary China I

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-302.

CHIN-SHU 416

Introduction to Contemporary China II

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-302. This course fulfills GCS Elective for Non-native Chinese Speaker.

CHIN-SHU 429

Chinese Business and Finance -- A Bilingual Introduction

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: Instructor Consent Required

CHIN-SHU 430

Discovering Contemporary China through Documentary Films

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.

CHIN-SHU 9000

Introduction to Conversational Chinese

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, 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. 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.

CHIN-SHU 9002

Introduction to Conversational Chinese--4 Credits

This four-credit language course for Study Away Students only 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

FREN-SHU 10

Intensive Elementary French

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.

FREN-SHU 20

Intensive Intermediate French

Completes the equivalent of a year's intermediate level in one semester. Offered every semester. 6 points.
PREREQS: Intensive Elementary French or Instructor Permission

FREN-SHU 30

French Grammar and Composition

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.

FREN-SHU 110

Business French

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.

JAPN-SHU 5

Elementary Japanese I

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.

JAPN-SHU 10

Elementary Japanese II

Designed for students continuing their introduction to modern spoken and written Japanese, designed to further develop fundamental skills in areas of speaking, listening, reading, and writing. Open to students who have completed JAPN-SHU 5 or the equivalent (EAST-UA 247) and to others on assignment by placement test.

SPAN-SHU 10

Intensive Elementary Spanish

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.

SPAN-SHU 20

Intensive Intermediate Spanish

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. Prerequisites: Intensive Elementary Spanish or Instructor Permission

SPAN-SHU 30

Advanced Spanish Grammar and Composition

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 4), Intensive Intermediate Spanish (SPAN 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)

SPAN-SHU 110

Techniques of Translation

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.

CEL-SHU 10

Community Development & Service-Learning

This zero-credit course is a required component of NYU Shanghai's Dean's Service Scholars program. This course serves as an introduction to issues related to social/community development and community service, and includes a practical community service experience, which will involve visiting one of five service sites during Spring Break (April 2 - 10), and assisting with the work of selected non-governmental organizations (NGOs). Taking a "service-learning" approach, this course integrates the study of topics and concepts with the development of skills relevant to social/community development through practical community service experience and critical reflection on this experience.

CEL-SHU 101

Topics in Service Learning: Migrant Families, Children and Youth in Shanghai

This course is taught in conjunction with students' participation in a weekly service experience (2 hours a week and at least 20 hours in total of service at the site) 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. As such, this course will assist students in understanding the individuals with whom they are working and the social/environmental contexts in which they live through course content and personal reflection on service. Students will learn about internal migration and urbanization in China and resettling migrants in the city of Shanghai. The course will touch on the fundamentals of engaging individuals in a helping situation; theories related to child development; implications of gender, culture and migration; impacts of multiple social contexts: the family, peers, school, social agencies and community; understanding the effects of social oppression on people's lives: poverty, sexism, classism, etc. Students will be expected to do journal writing and will have opportunities in class to share their experience. Class will meet weekly on campus for 75 minutes and students will be required to work for 2 hours/week at a local volunteer center that serves youth from migrant families. Prerequisites: None

CEL-SHU 101A

Topics in Service Learning: Rural Education in China

This program aims to provide a unique summer camp experience for rural primary school students in Songpan County, Sichuan Province while helping NYU Shanghai students learn about rural education and curriculum development and practice leadership, teamwork, and facilitation skills. Songpan County is located in northwest Sichuan Province. It is home to diverse ethnic minority populations, including Hui (Muslim), Tibetan, Qiang, and Han. The program's summer camp, led by NYU Shanghai students, will target 5th & 6th graders and take place at our partner school, Shi Li Primary School. The program provides training to help members make the most of this learning experience and prepare thoroughly for the responsibilities. Readings and workshops help members to learn about rural education, curriculum design, and the socioeconomic conditions of the local area, as well as teamwork skills. Team members will decide on the overall theme of the summer camp based on what they learn and design curriculum suited to the local context.

CEL-SHU 101A

Topics in Service Learning: Rural Education in China

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CEL-SHU 101B

Topics in Service Learning: Community Libraries

This course is a required component of NYU Shanghai's Dean's Service Scholars program in 2018-2019. This course serves as an introduction to issues related to social/community development and community libraries, and includes a practical service experience, which will involve four weekend trips to assist with the work of selected community organizations. Taking a "service-learning" approach, this course integrates the study of topics and concepts with the development of skills relevant to social/community development and critical reflection on this experience. As this is a two-semester program, students who enroll in the fall course are also required to enroll in the corresponding spring course. Pre-requisite: Successful Completion of Chinese Language Intermediate II or equivalent. Instructor permission required.

CEL-SHU 101C

Topics in Service Learning: Assistive Technology

This interdisciplinary project-based class focuses on the design, development, and use of technology that increases the quality of life of individuals with disabilities. Students will be introduced to various assistive technologies and strategies, including no-tech and low-tech as well as software and web-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 constructing a prototype assistive device. Field trips to local facilities will be scheduled which 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 that an individual with disabilities lives with and then create a novel and useful assistive device to meet their needs. Prerequisites or Co-Requsite: INTM-SHU 101 Interaction Lab.

CEL-SHU 101D

Topics in Service Learning: Language and Power

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 their 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). No prerequisites.

CEL-SHU 101E

Topics in Service Learning: Public Science Education in China

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 prerequisites.

CEL-SHU 102

Service Learning with Migrant Families in China

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.

LWSO-SHU 303

Traditional Chinese Political and Legal Philosophy

This is an NYU Law School course that has limited space for qualified upper-class undergraduate students. Students must complete an application to enroll. Applications will be reviewed by NYU Law's Office of Global Programs in collaboration with the relevant faculty members. For instructions on how to enroll, please request an application from shanghai.registrar@nyu.edu. Specific questions regarding the course can be directed to the NYU Law Office of Global Programs at law.globalstudents@nyu.edu. (Though this course is offered by the Law School, it does not count for graduate course credit.) Course Description: 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.

LWSO-SHU 491

International Investment Transactions in Developing Countries: China, Africa, Latin America

This course explores issues frequently encountered by international legal counsel and business executives and government officials in cross-border investment transactions involving developing countries with focus on China, Africa and Latin America. Topics will include: multilateral development institutions and development banks, state owned companies and “state capitalism”, government ministries and the approval process, national security review and anti-trust 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. Prerequisites: This is a senior seminar, open to seniors, or to juniors subject to space with instructor’s permission.

EXLI-SHU 9301

Experiential Learning I

This course aims to complement and enhance the internship experience. Students will learn to critically examine their fieldwork in order to reflect upon what their particular, concrete experience reveals about life in contemporary Shanghai.

EXLI-SHU 9302

Experiential Learning II

This is a 2nd- semester course aiming to complement and enhance the internship experience. Students will learn to critically examine their fieldwork in order to reflect upon what their particular, concrete experience reveals about life in contemporary Shanghai. Prerequisite: Experiential Learning I

SAS-SHU 100

China in the Headlines

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.

NYU Shanghai Leadership and Faculty

NYU Shanghai has a world class faculty and administration in Shanghai as well as a large cohort of affiliated faculty from across NYU's Global Network. At NYU Shanghai professors are scholars, scientists, and artists who are proven and innovative teachers and leaders of international standing in their fields. They have been appointed because of their commitment to cutting-edge research and engaged teaching methods to build the university of the future, NYU Shanghai.

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**UNDERGRADUATE
BULLETIN
2019 - 2020**

**NYU SHANGHAI
上海纽约大学**

UNDERGRADUATE BULLETIN 2019 - 2020



**上海纽约大学
NYU SHANGHAI**



UNDERGRADUATE BULLETIN
2019-2020

1555 Century Ave
Pudong, Shanghai
China 200122

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

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

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{ Part I }

Introduction and Overview

This is NYU Shanghai 这就是上海纽约大学

NYU Shanghai is the third degree-granting campus in NYU's global network, joining NYU in New York and NYU Abu Dhabi. It is a world-class, comprehensive liberal arts and sciences research university in the heart of Shanghai, and unlike any other university in the world.

Since 1831, NYU has proudly been in and of the city of New York, unencumbered by gates, intimately woven into the identity and landscape of one of the great idea capitals of the world. In the heart of Greenwich Village, the NYU community has flourished, gaining as much from the city as it has contributed.

Just as NYU is proudly in and of the city of New York, NYU is also proudly in and of the city of Shanghai, another great idea capital and a magnet for the best of intellect, culture, and inquiry from all over the world. But Shanghai is like no other place: a city of the future, it also has its own history and traditions, which are a vital part of its fabric. With its diverse resources—the educational foundation of NYU and the vibrancy and relevance of Shanghai—NYU Shanghai is where your classroom education intersects with a life's education.

The NYU Shanghai 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

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 East China Normal University; in New York University; in the interdependent society of humankind; and in a fully global ecosystem.

Research at NYU Shanghai

NYU Shanghai will continue in the great tradition of universities that combine world-class research with exceptional teaching. Research Institutes are focused on Mathematics, Computational Chemistry, Neuroscience, Physics, and Social Development with a Center for Big Data for Society and Business and a Center for Global Asia opening this year. Both graduate and undergraduate students at NYU Shanghai will have the opportunity to participate in research opportunities.

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.

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. The NYU Shanghai academic building is located along Century Avenue in Pudong, a location as central to Shanghai as Fifth Ave is to Manhattan.



WHERE WE ARE

Academic Building

The NYU Shanghai academic building located on Century Avenue in Pudong is surrounded by bustling activity, a lively community, and some of the most iconic buildings in the world—all right in the heart of a thriving economy and Shanghai's commercial center.

Fifteen stories tall, with two additional levels underground. It includes an expansive library, which will house an extensive physical and electronic collection with access to NYU's global library resources; a 300-seat auditorium; a 150-person colloquium space; a theater, music, and arts hall; and kitchen and dining facilities. Also generously equipped with classrooms capable of accommodating varying class sizes, dedicated floors for teaching and practical laboratories for various sciences, intimate study spaces, and faculty and administrative offices, the building functions as a campus unto itself and as the center of a thriving academic community. Wireless IT services and a robust IT infrastructure ensure that the building, and by extension, the students and faculty, remain fully connected to the NYU global network.

Residence Hall

The NYU Shanghai residence halls is located in the

JinQiao area of Pudong. Housed in three towers of the Green Center complex, the residence hall is located within an international hub with easy access to both local and international shops and restaurants. By living alongside fellow students and Resident Assistants, students will form intimate communities and the walls of the classroom will be broken down, allowing for education and an exchange of ideas to continue and flourish, unfettered by class schedules.

Location

At NYU Shanghai, students receive the support, engage in the activities, and participate in the community that they would expect from any other university in the world—except they'll have China as their canvas.

Just minutes away from the Century Avenue academic building, students will find a fully equipped athletics center that all NYU Shanghai students can use.

Beyond the walls of the residence hall are neighborhoods begging to be explored: the

dazzling lights of the Bund, the winding labyrinthine passages of Taikang Lu, and the picturesque solitude of the Lujiazui Boardwalk are just some of the places where students can while away an afternoon, eat xiaolongbao, and take in the sights and sounds.

And beyond the city limits of Shanghai, the country of China is available: the Great Wall, the Lingyin Temple, the Forbidden City, the Chengdu Panda Reserve, and more. China is, after all, a country with a vast, varying geography and demography, and a history no longer confined to just the pages of a book, but completely within reach of all NYU Shanghai students.

{ Part II }

Enrollment

Everything you need to know about:

- Admission
- Tuition, Fees, and Financial Aid
- Registration, Advisement, and Counseling
- Degree Requirements



Admission

Admission to NYU Shanghai is highly selective. Students are admitted based on the overall strength of their application, including rigor of curriculum and grades, extracurricular activities, teacher and counselor evaluations, and a demonstrated interest in global citizenship, service, and leadership.

NYU Shanghai Office of Undergraduate Admissions in Shanghai
(9am – 5pm China Standard Time)
Tel: +86 21 2059-5599
shanghai.admissions@nyu.edu

NYU Office of Undergraduate Admissions in New York
(9am – 5pm Eastern Standard Time)
Tel: +1 212-998-4500
shanghai.admissions@nyu.edu

Recommended High School Preparation

All applicants should pursue the most challenging curriculum available to them, as the rigor of a student's coursework will weigh heavily in the admissions process. NYU Shanghai considers a record of Honors, Advanced Placement (AP), International Baccalaureate (IB), A-Level or other high-level coursework to be an essential component of a successful application. In addition to advanced level courses, most successful applicants include many of the following areas of study in their high school programs:

- *English*—four years of English with a heavy emphasis on writing
- *Math*—three to four years
- *History/Social Studies*—three to four years
- *Science*—three to four years
- *Foreign Language*—three to four years

Please note that NYU Shanghai's language of instruction is English; therefore, it is required that all applicants have a high level of fluency in both written and spoken English. English language testing is not required for admission, but non-native English speakers may be asked to participate in a Skype interview or complete other English language assessments.

Applying to NYU Shanghai and Other NYU Campuses

Students can indicate their interest in being considered for admission to NYU Shanghai in addition to programs at NYU's campuses in New York City and Abu Dhabi on the Common Application.

Financial Support

NYU Shanghai is committed to providing the best financial aid package available based on an individual family's needs. As such, we invite all applicants, regardless of citizenship, to apply for financial aid through NYU Shanghai. US citizens and permanent residents should file the FAFSA and the CSS Profile; non-US citizens or permanent residents need only file the CSS Profile.

Transfer Applicants

NYU Shanghai currently only accepts first-year students. If you have already begun a university degree and are interested in applying, please contact our admissions office for more details.

Transfer Applicants Within the University

Students do not need to fill out an application to switch majors within NYU Shanghai. If a student wishes to explore the option of permanently transferring to another NYU campus, they must discuss their options with their academic advisor and the Dean of Students, who will counsel the student on if and when they may switch campuses.

Study Away Students

NYU undergraduate students from New York and Abu Dhabi may attend NYU Shanghai as full-time students for one or more semesters. Students should apply to study away through NYU's Office of Global Programs.

Special Undergraduate (Visiting Students)

Students from other four-year accredited undergraduate universities may attend NYU Shanghai as full-time students for one or more semesters. Students should apply to study away through NYU's Office of Global Programs.

Readmission of Former Students

Any former student who has been out of attendance for two or more consecutive terms and who wishes to return to NYU Shanghai must apply for readmission. Applications for readmission are available online (See next page for admission application deadlines). Requests for readmission should be received by the following dates: April 1 for the Summer and Fall terms, and November 1 for the Spring term.

Special (Postgraduate) Students

NYU Shanghai is not currently accepting postgraduate students to take undergraduate classes.

Advanced Standing

NYU Shanghai does not award credit for work completed at another college or university or advanced standing exams. In some cases, high school exam scores may be used for course placement. For a full list of eligible exams and scores, see: Core Curriculum Section.

How to Apply

USA/International

US/International students applying to NYU Shanghai may follow the same procedures for applying to any of NYU's degree-granting campuses:

- Apply to NYU Shanghai via the Common App (add NYU then ensure that Shanghai is listed as a campus of application on the Questions page)
- Submit test scores per our testing requirements (NYU Shanghai's US and International Standardized Testing Policy is the same as that of all of NYU's degree-granting campuses)
- Submit requested academic records and school reports
- Submit requested teacher and counselor recommendation letters
- Apply for Financial Assistance via the CSS Profile and FAFSA, if applicable, by stated deadlines

Please apply in accordance with the following deadlines:

Milestone	Date
<i>Early Decision I</i>	
Application Deadline	Nov 1
Notification Deadline	Dec 15
Response to an offer of admission	Jan 3
<i>Early Decision II</i>	
Application Deadline	Jan 1
Notification Deadline	Feb 15
Response to an offer of admission	Mar 1
<i>Regular Decision</i>	
Application Deadline	Jan 1
Notification Deadline	Apr 1
Response to an offer of admission	May 1

How to Apply for Financial Aid

All applicants (regardless of citizenship) will need to submit the CSS PROFILE application (and Noncustodial PROFILE, if applicable) for NYU Shanghai need-based grant consideration by:

- Early Decision I: November 15 (to receive a financial aid award in mid-December)
- Early Decision II: January 15th (to receive a financial aid award in mid-February)
- Regular Decision: February 20th (to receive a financial aid award by April 1)

Chinese Applicants Admissions Regulations

上海纽约大学2019年招生方案（中国大陆学生）

上海纽约大学将中美优质高等教育的优势相结合，精心打造注重激发和提升学生创新能力的课程体系、教学环境和培养模式，致力于将学生培养成为能够适应未来社会高速发展、全球化激烈竞争的精英人才。学生入学时不分专业，通过完成涵盖不同学科和领域的核心课程，在对各个学科的内容、前景，以及自身特点有了深入认识以后，最迟可在大二结束前完成专业的选择。从大三起学生可以选择前往纽约大学全球教育体系中的纽约校区、阿布扎比校区或11个学习中心进行为期1-2个学期的海外学习。

上海纽约大学在全面审视每位申请学生的通用申请和提交的材料基础上，通过“校园日活动”评价、高中学业和高考成绩相结合的招生录取模式，选拔出一批最适合上海纽约大学的优秀学生，而非采用高考成绩为单一依据的招生录取方法。其中，“校园日活动”是上海纽约大学首创的招生录取重要环节，着重考察学生的语言能力、综合素质，以及与学校的适合度和匹配度。

一、招生对象

上海纽约大学寻找的是学业优异、英语能力突出，具有强烈求知欲和好奇心，勇于挑战自我，乐于尝试新事物，能够适应国际化竞争环境，并且愿意成为跨文化沟通桥梁的优秀高中毕业生。

符合高考报名条件并参加2019年高考的学生均可申请报考上海纽约大学。

上海纽约大学对申请材料进行审核后，将从所有申请学生中邀请部分优秀学生参加“校园日活动”，并在考量学生“校园日活动”表现的基础上，结合高考、高中学业水平考试、综合素质评价等，通过高校招生综合评价体系录取学生。

二、招生计划

上海纽约大学2019年面向全国招收226名男生，招生计划不做分省安排，各省（自治区、直辖市）招生名额不设上下限，在所有申请学生中择优录取。

各省招生主管部门编印的《2019年普通高等学

校招生专业和计划》中的上海纽约大学招生计划数及专业名称，仅用于学生高考志愿填报，与各省（自治区、直辖市）最终录取人数和学生入学专业无关。

三、申请方式

1. 在线提交Slate申请

所有申请报考上海纽约大学的学生，都必须登录纽约大学Slate申请系统 (<https://connect.nyu.edu/apply>)，填写相关信息并完成两篇文书，于2019年1月1日前在线提交。

2. 在线填写并打印《上海纽约大学2019年校园日活动申请表》

完成“Slate申请”注册步骤后，学生需在上海纽约大学“校园日活动报名系统” (<https://cn.application.shanghai.nyu.edu/>) 实名注册，按要求在线填写、提交并打印《上海纽约大学2019年校园日活动申请表》。

“校园日活动报名系统”为上海纽约大学招生线上中文报名系统，通过身份证实名注册唯一个人账号。登录“校园日活动报名系统”，申请学生可以在线完成：

(1) 填写、提交、打印《上海纽约大学2019年校园日活动申请表》

(2) 查看最新官方招生公告和常见问题解答

(3) 查看各阶段申请状态和结果（申请状态和结果如有更新，将第一时间通过绑定的邮箱和手机告知）

(4) 获得预录取和待录取资格的学生在线填写高考成绩

3. 寄送书面申请材料

完成以上申请步骤后，学生还须向上海纽约大学招生办提交以下书面申请材料，所有申请材料应清晰、真实、完整。每页材料须在右上角空白处手写注明申请学生的Slate ID，用标准A4纸打印或复印，并按以下次序排放（申请材料请勿装订，不要加装各类订书针、封面、封底、装订夹等，以免剔除时误损申请材料）：

(1) 《上海纽约大学2019年校园日活动申请表》(请在上海纽约大学“校园日活动报名系统”下载打印,打印时务必选择A4纸格式)

(2) 高一、高二每学期期中期末成绩和高三期中成绩(须注明单科满分)、高中学业水平考试(会考)成绩复印件。以上材料均须加盖中学相关部门公章。如中学有既定的格式,以中学出具并加盖公章的成绩单为准。

上海、浙江的学生请同时提供已参加的选考科目成绩。

如发现成绩不实,经查实后一律取消学生的申请和录取资格,并将所在中学纳入非诚信学校。

(3) 高中期间主要获奖证书复印件及其他证明自己特长和优势的材料(非必需)。

申请材料须于2019年1月1日前以快递方式邮寄至上海纽约大学招生办公室(以当地寄出日期为准)。所有申请材料恕不退还,请学生自行备份。

邮寄地址:上海市浦东新区世纪大道1555号,上海纽约大学招生办公室收

邮编:200122 联系电话:021-2059 5599

四、选拔程序

1. 审核

上海纽约大学招生委员会将对学生的申请材料进行初审,并于2019年1月31日以电子邮件形式通知学生初审结果。

2. “校园日活动”

初审合格的学生受邀参加上海纽约大学“校园日活动”,学校将通过模拟课堂、英文写作、团队活动、个别面谈等方式考察学生的英语运用能力,以及求知欲、领导力、学习能力、适应能力、沟通表达能力、心理素质、团队精神等各方面素质。

“校园日活动”全程用英语进行,在春节后的周末分批进行,具体时间和地点将另行通知。

五、录取政策

上海纽约大学招生委员会将根据学生“校园日

活动”表现,对每位学生进行严谨的评价和讨论,并给予相应录取政策:

A. 预录取:学生须参加2019年普通高考,高考成绩达到生源所在省本科第一批录取控制线(一二本录取批次合并的省为自主招生控制分数线,浙江为第一段分数线),上海纽约大学即予以录取。

B. 待录取:学生须参加2019年普通高考,高考成绩达到生源所在省本科第一批录取控制线(一二本录取批次合并的省为自主招生控制分数线,浙江为第一段分数线),上海纽约大学将结合学生申请过程中的各项因素,包括高考成绩,综合评定,择优录取。

如考生所在省级招生办公室另有规定,则按省招办规定办理。

六、学费及助学金

2019年入学本科生学费:第一、二学年每年人民币120,000元,第三、四学年每年人民币180,000元。

被上海纽约大学录取的学生,学校将根据学生在“校园日活动”中的表现和申请材料给予部分学生奖学金与预录取结果一并发放,高考后不另设奖学金。奖学金设二档,将按学期分四年发放:全球典范奖,共人民币240,000元;全球菁英奖,共人民币120,000元。

对于被上海纽约大学录取、但家庭无法承担学习和生活费用的学生,在学生按要求提供的家庭经济状况信息真实完整的前提下,学校将酌情提供助学金,学校不希望被录取的学生因家庭经济困难而失去终身发展的机会。

学生在校期间,还可申请国家助学贷款,及各级奖助学金。学校还会提供大量校外外实习机会进一步帮助学生减轻经济负担。

七、颁发证书

上海纽约大学学生修学期满,符合毕业要求,将获得以下全日制本科证书:

1. 上海纽约大学学士学位证书(中华人民共和国教育部监制)

2. 上海纽约大学毕业证书(中华人民共和国教育部监制)

3. 美国纽约大学学士学位证书（美国纽约大学颁发）

八、监督机制

上海纽约大学的招生过程坚持公平、公开、公正的原则，保证不同经济背景、种族、性别、宗教信仰的学生都有机会申请入学，接受考生及家长与社会各界的监督。

监督电话：021-2059 5255

监督邮箱：shanghai.jiandu@nyu.edu

九、联系方式

学校网址：www.shanghai.nyu.edu

咨询热线：021-2059 5599

咨询邮箱：shanghai.admissions@nyu.edu

咨询现场：上海市世纪大道1555号上海纽约大学咨询中心

官方微博：上海纽约大学招生办（新浪微博）

官方QQ群：

NYUSH招生官方 - 华东 111393813

（上海、浙江、江苏、安徽、福建、江西、山东）

NYUSH招生官方 - 华北东北 312415903

（北京、天津、河北、山西、内蒙古、黑龙江、吉林、辽宁）

NYUSH招生官方 - 西南西北 584188864

（重庆、四川、贵州、云南、西藏、陕西、甘肃、青海、宁夏、新疆）

NYUSH招生官方 - 华中华南 605743020

（河南、湖北、湖南、广东、广西、海南、港澳台）

官方微信：NYUSHZS

Tuition, Fees, and Financial Aid

When estimating the net cost to the family of a university education, a student should consider two factors: (1) the total cost of tuition, fees, and materials related to a particular program, plus costs directly related to the choice of living style (dormitory, apartment, and commuting costs) and (2) financial aid that may be available from a variety of sources. This section provides information on both of these distinct but related topics.

The following is the schedule of fees established by NYU Shanghai for the year 2019-2020. NYU Shanghai reserves the right to alter this schedule without notice. Tuition, fees, and expenses can be expected to increase in subsequent years and will be listed in online updates to this Bulletin.

Registration and school based fees cover additional expenses related to student course activities. Service fees also cover health services (separate from health insurance), emergency and accident coverage as well as basic fees necessary to support curriculum related technology.

Note: Separate course fees may be required for some courses. Students should consult the respective Albert course listing for information.

All fees are payable at the time of registration. The Office of the Bursar is located on the 10th floor of the campus building in room 1051. Online payments and wire transfers are to be paid to NYU Shanghai for the exact amount of the tuition and fees required. In the case of an overpayment, the balance is refunded in the 2nd month after each semester starts by the Office of the Bursar.

A fee will be charged if payment is not made by the term due date indicated on the student's statement.

Cost of Attendance

The preliminary cost of attendance budget represents the estimated annual cost of education for full-time undergraduate students at NYU Shanghai in US dollars for the 2019-2020 academic year. It includes tuition, room and board (which may vary based on a student's room selection), health insurance, personal expenses, books and course materials, and many student life activities. The costs listed below are estimated for the 2019-2020 academic year only. Annual adjustments to the costs and fees at NYU Shanghai may be necessary and should be expected. The yearly tuition and residence costs include only full-time fall and spring enrollment; course overloads incur additional tuition, registration and service fee. Students that take summer session or January term courses will incur additional direct and indirect expenses. Direct expenses will be billed accordingly. Financial assistance may not be available for summer or January term sessions.

Indirect costs—such as estimated board, travel, 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.

NYU Shanghai Estimated Cost of Attendance in US dollars for 2019-2020

Direct Costs: Costs that you will be charged by NYU Shanghai

Cost

Tuition, Registration and Services Fees*	\$53,310*
Health Insurance**	\$3,632**
Room	\$4,109
Estimated Books and Materials	\$1,000

Indirect Costs: Other educational costs incurred

Cost

Board (Meals)	\$2,597
Estimated Personal Expenses	\$1,000
Estimated Travel	\$3,750

Total Cost of Attendance (Estimated)

\$69,398

*Tuition, Registration and Services Fees, per unit (19 or more units) \$1,563. This charge will be assessed to students who take over 18 units.

**Health insurance charges vary. The estimated maximum is \$3,632 for 2019-2020. Your direct charges may vary.

***International students can use reliable exchange rate information while arranging financials in advance, official USD exchange rate will be published in July, 2019

Special Programs including Study Away

The tuition paid to NYU Shanghai is the cost of tuition for a semester away in NYU's global network (for a standard full time course load). However, the cost of attendance varies between the global academic centers and degree-granting campuses, for other expenses (i.e. room, board, travel) for study in the NYU Study Away programs and in NYU International Exchange Programs. Students may refer to the cost estimator to get an estimate of their expected cost of attendance per semester.

NYU January and Summer Terms

Starting in their freshman year, students are eligible for NYU January term. After completion of the freshman year students are eligible for NYU summer terms. NYU's January and Summer terms allow students more flexibility and scheduling options. NYU Shanghai students have the opportunity to earn course credit or explore a new interest. During this time, students can take advantage of intensive study at NYU Shanghai or one of the global study away sites or other degree-granting campuses. Oftentimes, the fall and spring semesters can be overly hectic for students, considering a full-time course load, student club responsibilities, work, internship commitments, and social obligations. This busy time forces students to focus mainly on their academic progress, which doesn't always allow the freedom to explore a new interest or take advantage of the many cultural resources that originally drew them to Shanghai. Further information is available from the NYU Shanghai Office of Global Affairs. Students should be aware that there are additional tuition fees for January and summer terms outside of the fall and spring semesters. Typically financial aid is not available for the terms.

Deferred Payment Plan (For U.S. students only)

The Deferred Payment Plan allows students to pay 50 percent of their net balance due for the current term on the payment due date and defer the remaining 50 percent until later in the semester. This plan is available to students who meet the following eligibility requirements:

- Matriculated and registered for 6 or more points
- Without a previously unsatisfactory NYU

Shanghai credit record

- Not in arrears (past due) for any NYU Shanghai charge or loan

The plan includes a nonrefundable application fee of \$50, which is to be included with the initial payment on the payment due date.

A separate deferred payment plan application and agreement is required for each semester this plan is used. The Deferred Payment Plan will be available at www.nyu.edu/bursar - Make a Payment starting in July for the fall semester and in December for the spring semester.

For additional information, please visit the website of the Office of the Bursar at <http://shanghai.nyu.edu/academics/tuition/us> or call +86 21 20596666.

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 at shanghai.studentaccounts@nyu.edu or call +86 21 20596666 to clear arrears or to discuss their financial status.

Withdrawal and Refund of Tuition

A student who, for any reason, finds it impossible to complete one or more courses for which he or she has registered should consult with an academic advisor. An official withdrawal must be filed either on Albert (through the first three weeks of the term only) or in writing on a completed Request for Withdrawal form with the Office of the NYU Shanghai Registrar. (Note: An official withdrawal must be filed if a course has been canceled, and, in this case, the student is entitled to a refund of tuition and registration fees paid.) Withdrawal does

not necessarily entitle the student to a refund of tuition paid or a cancellation of tuition still due. A refund of tuition will be made provided such withdrawal is filed within the scheduled refund period for the term. (See below for the schedules.)

Merely ceasing to attend a class does not constitute official withdrawal, nor does notification to the instructor. A stop payment of a check presented for tuition does not constitute withdrawal, nor does it reduce the indebtedness to NYU Shanghai.

The date on which the Request for Withdrawal form is filed, not the last date of attendance in class, is considered the official date of the student's withdrawal. It is this date that serves as the basis for computing any refund granted the student. The processing of refunds takes approximately two weeks.

Undergraduate Refund Schedule

Withdrawing From ALL Courses (Fall and Spring Only)

A refundable credit balance may result on your student account because of financial aid disbursements, over-payments and/or account adjustments. Before you get any refund, please make sure you have valid bank account information that you wish the refunds to go to in Bursar's records. If you are not sure about your account info, please contact us to update or add new accounts.

For details on Refund and Withdraw, please visit :

Chinese Students:

<https://shanghai.nyu.edu/academics/tuition/chinese/refunds-and-withdrawals>

US Students:

<https://www.nyu.edu/students/student-information-and-resources/bills-payments-and-refunds/refunds-and-withdrawals.html>

International Students:

<https://shanghai.nyu.edu/academics/tuition/international/refunds-and-withdrawals>

Note: A student may not withdraw from a class after

the ninth week of the fall or spring semester or in the last two weeks of each six-week summer session.

Exceptions to the published refund schedule may be appealed in writing to the Assistant Provost for Academic Affairs and should be supported by appropriate documentation regarding the circumstances that warrant consideration of an exception. Exceptions are rarely granted. Students who withdraw should review the above "Refunds" page on the Office of the Bursar's website.

U.S. federal regulations require adjustments reducing financial aid if a student withdraws even after the NYU refund period. Financial aid amounts will be adjusted for students who withdraw through the ninth week of the semester and have received any federal grants or loans. This adjustment may result in the student's bill not being fully paid. NYU will bill the student for this difference. The student will be responsible for payment of this bill before returning to NYU and will remain responsible for payment even if he or she does not return to NYU.

For any semester a student receives any aid, that semester will be counted in the satisfactory academic progress standard. This may require the student to make up credits before receiving any further aid. Please review the "satisfactory academic progress" standard so you do not jeopardize future semesters of aid.

Eligibility for Financial Aid

Financial aid may be comprised of university scholarships, federal aid (for US citizens/official permanent residents of the United States), or outside scholarships. NYU Shanghai reviews all students for scholarship eligibility regardless of citizenship. For most undergraduates, eligibility for merit and/or need-based scholarships is determined by a student's prior academic strengths, and upon demonstration of financial need from the results of the submitted financial aid form(s).

NYU Shanghai Scholarship and/or grant renewal: US Citizens and International Students (Non-Chinese Nationals)

All returning undergraduate students who have NYU Shanghai Scholarship/grant to renew will continue to receive for subsequent academic years the amount of scholarship received for your first year (subject to the availability of funds), as long as the following criteria are met:

You are a full-time student (at least 12 credits or more per semester).

You are meeting the [Satisfactory Academic Progress](#) standards.

You have approximately the same amount of financial need that you had in prior years.

US Citizens:

All returning undergraduate students will be reviewed for federal financial aid eligibility with the successful submission of the FAFSA using NYU's school code (002785) for the relevant academic year. Federal financial aid may include Pell Grant and federal Direct Loans. Eligibility is based on financial need, anticipated enrollment, cost of attendance, and the availability of funds. We suggest that all students file by **May 1** in order to ensure that their financial aid package will be ready in advance of the

Bursar bill.

Chinese nationals applying to NYU Shanghai will need to contact the NYU Shanghai Office of Admissions in the Shanghai Office (9:00 a.m.-5:00 p.m. China Standard Time): +86-21-2059-5599 for additional information regarding individual scholarship requirements.

Non-Chinese nationals applying to NYU Shanghai must follow the instructions below if they wish to be considered for financial aid.

The College Scholarship Service (CSS) Profile

The CSS Profile is required of all applicants, regardless of citizenship, who would like to be considered for financial aid, including any scholarships/grants from NYU Shanghai. Note: students with divorced, separated, or unmarried biological parents will also need to have their noncustodial parent submit their own CSS Profile (or the NYU CSS Profile Waiver Request for the Noncustodial Parent with all supporting documentation) by the deadlines specified below to be considered for institutional scholarships/grants. Chinese nationals applying to NYU Shanghai (using the Gaokao to qualify for admission) should not complete the CSS Profile.

- Visit <https://cssprofile.collegeboard.org/to> begin and submit the CSS Profile for both your custodial and noncustodial parent (if applicable).
- Students needing a CSS Profile Waiver Request for the Noncustodial Parent should contact shanghai.financial.support@nyu.edu.
- The New York University CSS school code number is 2785.
- The upcoming aid year's CSS Profile becomes available as of October 1.

Freshman Applicants CSS Profile Deadlines:

	Early Decision I	Early Decision II	Regular Decision
CSS Profile	November 15	January 15	February 20
CSS Profile for the noncustodial parent (if applicable)	November 20	January 20	February 20
Estimated Award Notification	mid-December	mid-February	April

The Free Application for Federal Student Aid (FAFSA)

NYU Shanghai is approved by the U.S. Department of Education to provide federal financial aid to eligible students who are U.S. citizens or official permanent residents of the U.S. Therefore, all U.S. citizens or official permanent resident applicants who would like to be considered for financial aid at NYU must submit the FAFSA in addition to the CSS Profile form.

- Visit <http://fafsa.gov> to begin and submit the FAFSA.
- You must list “New York University” as a recipient and include our federal school code number (002785) when completing your FAFSA.
- The upcoming aid year’s FAFSA becomes available as of October 1.

Freshman Applicants FAFSA Deadline:

	Early DeciSion I	Early Decision II	Regular Decision
FAFSA	November 15 *	January 15 *	February 15
Award Notification	mid-December *	mid-February *	April

* EARLY DECISION RECOMMENDED FILING DATE FOR FAFSA:

The FAFSA (NYU school code 002785) is required for federal financial aid and NYU scholarship consideration for all U.S. Citizens, Permanent Residents, and eligible non-citizens applying to our New York City campus and/or to NYU Shanghai. Early Decision admitted students who file and complete the FAFSA by the CSS Profile deadline will receive a financial aid package that includes federal financial aid eligibility at the time of admission. Early Decision admitted students who file and complete the FAFSA after the CSS Profile deadline will have their federal aid eligibility awarded upon receipt of the FAFSA. Use of the Data Retrieval Tool is preferred whenever possible.

Student Responsibilities

- US Citizens: You must submit a FAFSA application each year to renew the federal aid portion of the financial aid awarded at NYU.
- You should refer to <https://www.nyu.edu/admissions/financial-aid-and-scholarships/new-undergrad.html> for all financial aid application deadlines for freshman applicants. It is important to adhere to all applicable deadlines for aid consideration.
- Use NYU Albert at albert.nyu.edu to view and accept your financial aid awards.
- Please do not submit any additional documentation unless otherwise requested by the Office of Financial Support.
- It is important that you understand the conditions of the awards you accept. Contact the Office of Financial Support at shanghai.financial.support@nyu.edu if you have any questions.
- You must adhere to satisfactory academic progress standards to remain eligible for your NYU Shanghai scholarship and/or grant. The Office of Financial Support will send reminders, but it is the student’s responsibility to know and heed the requirements.
- You must notify the Office of Financial Support immediately if you receive an award or financial aid from any additional outside source. A change in your resources may affect the type of aid you may be eligibility for.
- You must respond immediately to all requests from the Office of Financial Support. Failure to comply may result in the cancellation of your aid.
- Consult with the Office of Financial Support immediately if you reduce your academic enrollment to fewer than 12 credits per semester or if you are enrolled full-time (at least 12 credits or more) but intend to begin part-time (less than 12 credits per semester) to discuss how those changes will impact your financial aid. Also contact the Office of Financial Support if there is a change in your housing status. A change in enrollment or housing status may affect the financial aid you receive.
- Be sure to notify the NYU University Office of the Registrar if you have a change of address by updating your contact information via NYU Albert at albert.nyu.edu. We use the records from the Office of the Registrar to administer financial aid.

*Registration,
Academic Advisement,
and Counseling*

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 Room 1049 for assistance or to view its website at shanghai.nyu.edu/academics/registration. Office hours are weekdays from 9 a.m. -11:30 a.m. and 1:00 p.m. to 5 p.m.

Students can complete their initial registration through Albert, NYU's online registration system, at home.nyu.edu. Students can also use Albert to make later adjustments to their schedule.

New Students

Newly admitted students receive detailed registration information a few weeks prior to orientation. New students meet with an academic advisor during orientation to discuss their class schedule and other academic questions.

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: <http://www.nyu.edu/students/health-and-wellness/student-health-center/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 and support to students looking to reach their highest academic potential. Students can schedule a meeting, or drop by the ARC, for the following:

- Individual and small-group tutoring in over 30 STEM, Business, Humanities, and Economics courses
- Individual writing consultations at any stage of the writing process
- Academic coaching in areas such as critical reading & note-taking strategies, and setting goals and managing multiple priorities
- Workshops on writing, creativity, applications and software

Students are also welcome to study on their own in the comfortable, supportive atmosphere of the Academic Resource Center.

Career Development Center

The NYU Shanghai Career Development Center (CDC) aims to provide comprehensive career guidance to the entire student body. The CDC collaborates with employers, alumni, faculty, other departments, and external organizations to provide a range of resources and opportunities for students to achieve personal and professional success.

Students may sign up for individualized appointments with a career coach throughout the year. 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 pre-professional and graduate school options;

Besides coaching appointments, students may find many other ways to gain professional skills and build connections to expand their network. The CDC offers robust career-related programming during the academic year including career fairs, career speakers, industry panels, skills workshops, alumni mentor matching, and much more.

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 Engagement

NYU Shanghai offers for-credit courses that have community-engaged learning components, such as academic service learning courses. We encourage students to seek out such opportunities during their college career to intellectually explore and gain firsthand experience with social issues in the city of Shanghai and in greater China.

Preprofessional Programs

Pre-Medical and Health Studies Program

It is important to understand that health-related pre-professional 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 pre-medical and health curriculum.

NYU Shanghai, like many American colleges and universities, does not offer a pre-medical, pre-dental, or pre-health major. 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 M.D./Ph.D. programs.

The following NYU courses are equivalent to the basic set 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
- FoS Physics I Laboratory & Physics II Lab
- Foundations of Chemistry I & II
- FoS Chemistry Laboratory
- Foundations of Biology I & II
- FoS Biology Laboratory
- Organic Chemistry I & II
- Organic Chemistry I & II Lab

In addition, many schools expect students to have taken the following courses:

- Calculus
- Statistics
- Introduction to Psychology
- A sociology course that surveys individual and social patterns of behavior and determinants of health
- 2 semesters of upper level Expository Writing courses are recommended. These courses cannot include Creative Writing and need to focus on writing or
- interpreting advanced texts.
- 1 semester of Biochemistry

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 Prelaw 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.

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. 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 prevent him or her 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 opened 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 addresses the issues impacting students from a physical, emotional and health knowledge perspective and provides activities and resources that empower the students to achieve their academic potential.

Academic Resource Center Tong Jin (*tong.jin@nyu.edu*) with any questions about registering.

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 Henry and Lucy Moses Center for Students with Disabilities (CSD) in New York determines qualified disability status and assists students in obtaining appropriate accommodations and services. CSD 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 supports.

Any student who needs a reasonable accommodation based on a qualified disability is required to register with the CSD for assistance. They should contact the Interim Assistant Director of the

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 (B.A.)

- Global China Studies
- Economics
- Humanities
- Social Science

Bachelor of Science (B.S.)

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

The general degree requirements are the same for the B.A. and the B.S.

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. At least one-half of the courses as well as one-half of the credits used to complete the major must be taken in the disciplinary area. A student may not register for courses in the major outside of NYU. The student must be approved as a major and must review his or her program with an academic advisor each term.

Course offerings are subject to the availability of faculty. Therefore, 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.

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.

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.

Prerequisite Courses for Declaring a Major

Major	Final grade of C or higher in:
Biology	Foundations of Biology I
Business and Finance	Statistics for Business and Economics
Business and Marketing	Statistics for Business and Economics
Chemistry	Foundations of Chemistry II
Computer Science	Introduction to Computer Programming OR Introduction to Computer Science
Computer Systems Engineering	Introduction to Computer Programming OR Introduction to Computer Science
Data Science	Introduction to Computer Programming OR Introduction to Computer Science + Calculus
Economics	Microeconomics
Electrical and Systems Engineering	Introduction to Computer Programming OR Introduction to Computer Science
Global China Studies	Any required Global China Studies course
Honors Mathematics	Analysis I + Honors Linear Algebra II + Cumulative GPA 3.65 or higher in all classes and in Math classes
Humanities	Global Perspective on Society
Interactive Media Arts	Interaction Lab or Communications Lab
Interactive Media and Business	Application Lab OR Interaction Lab OR Communica- tions Lab OR Principles of Financial Accounting OR Economics of Global Business
Mathematics	Multivariable Calculus
Neural Science	Foundations of Biology I
Physics	Foundations of Physics II
Social Science	Global Perspective on Society

Double Major

Students may attempt a double (second) major. The same requirements, including the maintenance of a minimum grade point average of 2.0 in the major, apply to the second major as to the first. 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. Requirements for completing a major as a double major are the same as detailed for the major requirements.

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.

{ Part III }

Standards and Policies

Everything you need to know about:

- Academic Policies
- Placement Examinations, Degree Progress, and Transcripts
- Academic Standards and Discipline
- University Policies and Campus Safety
- Honors and Awards

Academic Policies

- Courses
- Credits
- Examinations
- Grades
- Leaves

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. Students who wish to attend part-time should obtain permission from the Office of the Assistant Provost for Academic Affairs prior to the start of the semester. Such status will be granted only when there is good and sufficient reason for part-time study. 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 freshman 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.

Availability of Courses

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. Excess demand will not lead to creation of additional space in major elective courses or for students seeking to take a required major course earlier than the semester it is listed in the recommended course sequence.

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.

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 or file a Change Course Enrollment form available on the Registrar's Office website (shanghai.nyu.edu/academics/registration).

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.

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 ninth week of the term will be recorded with a grade of W. After the ninth week, no one may withdraw from a course except in cases of full semester withdrawal as recommended by Health and Wellness and accompanied by medical 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 form, and get the approval of the Assistant 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."

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. 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 (nondegree) 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 are seriously ill and/or will miss more than a week of classes due to medical reasons, should contact their academic advisor and the Office of Health and Wellness for assistance in excusing their absences from class.

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 Assistant 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.

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. 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, the grades from both times the student took the course will be recorded on the transcript but only the credits from the second time the course is taken will be counted. Furthermore, the two grades (from the first and second times) will be averaged in the before calculated in the cumulative grade point average.

For Chinese national students, a repeated course

will take space in their free extra 8-credits beyond 128 total credits.

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 the Office of Academic Affairs.

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.

Credits from any courses taken in NYU's School of Professional Studies 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.

Credit for Transfer Students

NYU Shanghai does not presently accept transfer applicants.

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. Exceptions are granted only rarely and only for good academic reasons.

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.

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 minute 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 pre-arranged 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.

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, 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 final examinations are missed because of illness, a doctor's note must be presented to the Health & Wellness Center, which can verify the medical situation and inform the instructor. After confirmation by Health & Wellness, the student must submit a request to the instructor to receive a grade of Incomplete. It is up to the instructor and Academic Affairs to decide if a request for a grade of Incomplete will be granted. The time and place of any makeup examinations are set by the instructor or the major leader.

Incomplete grades received because of a missed final examination must be replaced with a letter grade within the semester following the one in which the Incomplete was received. In the case of students who are out of attendance, such grades must be replaced within one year after the end of the course concerned. An Incomplete is a temporary grade; if it is not replaced within

the time limit by a grade submitted by the course instructor it becomes an F or the default grade indicated by the instructor, and is computed in the grade point average. (Regarding the removal of Incompletes received for missed work other than final examinations, see next page 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:

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

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 I (Incomplete) is a temporary grade that indicates that the student has, for good reason, completed all but a single requirement or a small amount of the course work, and that there is the possibility that the student will eventually pass the course when all of the requirements have been completed. A student must ask the instructor for a grade of I, present documented evidence of illness or the equivalent, clarify the remaining course requirements with the instructor, and receive approval from the Assistant Dean for Academic Affairs.

The Incomplete grade is not awarded automatically. It is not used when there is no possibility that the student will eventually pass the course. If the course work is not completed and a grade submitted by the course instructor before the statutory time for making up incompletes has elapsed, the temporary grade of I becomes an F or the default grade indicated by the instructor and is computed in the student's grade point average.

Incompletes

All work missed in the fall term or in a January term session must be made up by the end of the following spring term. All work missed in the spring term or in a summer session must be made up by the end of the following fall term. Students who are on a leave of absence in the semester following the one in which the course was taken have one year to complete the work. Students should contact their advisor for an Extension of Incomplete Form, which must be approved by the instructor. Extensions of these time limits are rarely granted.

NYU Shanghai follows the Office of Global Programs policy regarding incomplete grades and study away admission. Incomplete (I) grades on students'

transcript must be resolved before an admissions decision for study away can be made.

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 Assistant 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 completion of the 9th week of the term (fourth week of a six-week summer session); 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 and English for Academic Purposes courses cannot be taken P/F. Courses in other languages 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.

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 (<http://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. Students on leave may only visit campus for scheduled appointments with NYU Shanghai faculty or staff. 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.

*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 coming 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 placement 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 through Intermediate Chinese II (CHIN SHU 202) or Intermediate for Advanced Beginners (CHIN-SHU 211). 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 80 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 a certain level (including to fulfill the language requirement), the student must take an in-person place-out exam, one level at a time. The place-out exam must be taken and completed prior to the student's final semester. Students may be asked to take an in-person entry placement exam for Advanced Chinese I course after returning from their study away semester(s).

Information on placement testing can be obtained from the Office of Academic Advising. Students may contact shanghai.chinese.placement@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 could be found at the website: Learning Chinese <https://guides.nyu.edu/learnChinese>.

Placement Process for Writing as Inquiry

Entering students who did not speak English in the home or attend K-12 schools where English was the primary language of instruction will be evaluated for placement in two different first-year writing courses. Student standardized test scores, Candidate Weekend scores, and a writing sample may be considered as part of the evaluation. In some cases, adjustments in placement may be made during the first weeks of class. Information on placement testing will be communicated to matriculating students by their advisors.

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.

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.

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.

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.
 - 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.

Academic Standards and Discipline

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 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 cumulative or semester grade point average falls below 2.0 or if it fails to show steady and substantial progress toward the degree. Steady and substantial progress toward the degree entails the completion, 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 (a) achieve a grade point average of at least 2.0 during the probationary term, (b) not receive any grade below a C or any grade of I, and (c) not withdraw from any course without securing the permission of the NYU Shanghai Academic Standards Committee prior to the withdrawal. Students on academic probation are also required to have an additional probation interview with their advisor to receive registration clearance for the next semester. 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.

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 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 Assistant 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.

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)
3. Any behavior that violates the academic policies set forth by NYU Shanghai.
 - 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.

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 Assistant 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 Assistant 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 Assistant Provost for Academic Affairs' office 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 Assistant 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 Assistant 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 Assistant 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 <https://shanghai.nyu.edu/campuslife/community-standards/>.

University Policies

- Privacy of Student Records
- Computing and Information Resources Code of Ethics
- Emergency Temporary Closing of the University
- Freedom of Expression
- Human Subjects in Research at NYU Shanghai

A. 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 her or his 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.

B. 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.

C. 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.

D. 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.

E. 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 at <https://research.shanghai.nyu.edu/resources/human-subjects>.

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 Assistant 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 Assistant 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.

Senior Award in Arts

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

Senior Award in Sciences

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

Senior 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.

Senior Award in Engineering and Computer Science

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

{Part IV}

Academic Overview

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.

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.

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.

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 orientation week.

Study Away

Students are required to spend at least 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:

For Classes of 2022 and Later:

Students may choose to study away for up to two

semesters within the 4-semester window of second semester sophomore year through first semester senior year, but study away during spring of sophomore year may not be NY or AD.

Students are required to have 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. NYU's global network requires students to have a 3.00 cumulative grade point average to study away. Students with a GPA below 3.00 should discuss their options with their advisor.

Courses that students need for their major are offered at the NYU global academic centers and degree-granting campuses allowing students to continue to fulfill many of 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. Through the application process, students agree to the Study Away Standard.

Majors

Majors and Minors

NYU Shanghai offers its students an array of majors and minors. Our majors and minors showcase NYU's world-class faculty, major research strengths, and international distinction. These include:

NYU Shanghai majors are organized into three divisions each overseen by a Dean.

Arts & Sciences

Dean Maria Montoya

- Biology
- Chemistry
- Economics
- Global China Studies
- Humanities
- Interactive Media Arts
- Interactive Media and Business
- Mathematics
- Honors Mathematics
- Neural Science
- Physics
- Social Science

Business

Dean Yuxin Chen

- Business and Finance
- Business and Marketing

Computer Science and Engineering

Dean Keith Ross

- Computer Science
- Computer Systems Engineering
- Electrical and Systems Engineering
- Data Science

Self-Designed Honors Major

Minors

Shanghai Minors

- Biology
 - Molecular and Cell Biology
 - Genomics and Bioinformatics
- Business
- Chemistry
- Chinese
- Computer Science
- Computer Systems Engineering
- Creative Writing
- Data Science
- Economics
- Electrical and Systems Engineering

- Global China Studies
- Humanities
- History
- Literature
- Philosophy
- Interactive Media Arts
- Interactive Media and Business
- Mathematics
- Neural Science
- Physics
- Social Science

Global Network Minors

- Art History Studies
- Art Studies
- Australian Culture and Society
- British Culture and Society
- Central European Culture and Society
- Cultural Studies
- Entrepreneurship and Innovation
- European Culture and Society
- Fashion Studies
- French Culture and Society
- German Culture and Society
- Global Cities Studies
- Global Public Health Studies
- Globalization Studies
- Italian Culture and Society
- Journalism Studies
- Latin American Culture and Society
- Middle Eastern Culture and Society
- Pan African Culture and Society
- Psychological Studies
- Photographic Studies
- Political Studies
- Sociological Studies
- Spanish Culture and Society
- Sustainability Studies
- West African Culture and Society

NYU cross-school minors

For the list of cross-school minors, see <http://www.nyu.edu/students/undergraduates/academic-services/undergraduate-advisement/unique-academic-opportunities/cross-school-minors/cross-school-minors-by-school.html>

{ Part V }

Core Curriculum Overview

There are seven components to the NYU Shanghai core curriculum: Social Foundations, Cultural Foundations, Writing, Mathematics, Science, Algorithmic Thinking, and Language.

Courses in the Social Foundations and Cultural Foundations sequences 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. Social and Cultural

Social and Cultural Foundations 1 & 2

Foundations courses will teach students to ask critical questions, find unstated assumptions, assess arguments, and offer creative interpretations of the great works and ideas of the past, especially as they live on in the present.

Required courses: Social Foundations and Cultural Foundations each have two components: a) a one-semester survey course, and b) a disciplinary course on China.

Social Foundations: In the one-semester survey course *Global Perspectives on Society*, students will engage in the comparative study of primary works of social thought from across the globe. The course addresses ways that writers in different times and cultures have sought to situate humans within the universe, and to promote ideal standards for human behavior. Each week, students will be expected to engage one or more central texts by an important thinker on the topic. The expectation is that *Global Perspectives on Society* will be taken in the first semester.

Students will complete the Social Foundations requirement with a disciplinary course of their choice from the category *Social Science Perspectives on China (SSPC)*. This course can be taken at any point in a student's undergraduate career. *Social Science Perspectives on China* courses explore Chinese society in depth and in comparative perspective. Students develop a global perspective through a Chinese lens by studying interactions among individuals, families, communities, and nations. Courses in this category develop students' understanding of historical and contemporary China and develop their ability to engage in qualitative and quantitative analyses of social, economic, and political institutions in China and abroad. This category may include courses in Chinese anthropology, economics, environmental studies, law, media studies, public health, politics, psychology, and sociology.

Cultural Foundations: *Perspectives on the Humanities* is a one-semester core curriculum requirement. In the fall of their second year at NYU Shanghai, students choose from a variety of *Perspectives on the Humanities* topics. These content-based writing seminars introduce students to the questions asked and methods used by a variety of disciplines in the humanities, including philosophy, history, and literature. *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 Cultural Foundations requirement, this course satisfies one of two writing requirements (see "Writing"). The first-year writing course is a prerequisite for *Perspectives on the Humanities*.

Students will complete the Cultural Foundations requirement with a disciplinary course of their choice from the category *Humanistic Perspectives on China*. As with the courses in "Social Science Perspectives on China," students may take their *Humanistic Perspectives on China* course at any point in their undergraduate career. *Humanistic Perspectives on China* courses provide in-depth understanding of Chinese history, philosophy, culture, art, literature, etc. These courses explain the complex origins and the transformations of China through different time periods, emphasize the importance of examining China from a global perspective, and engage in the analysis of multiple textual and visual sources. These courses help students develop skills to critically analyze the internal developments as well as evaluate the global relevance of China historically and in contemporary times. This category may include courses in Chinese history, philosophy, art, architecture, drama, film, literature, and music.

3 Writing

NYU Shanghai writing courses serve as an introduction to academic writing and inquiry at the university level. Students learn how to closely read academic, argumentative, and narrative texts; how to provide an interpretation supported by evidence; how to build logical arguments and develop research questions; and how to adapt their writing to different genres and audiences. In these courses, students come to see writing as a process, one that sharpens their thinking and allows them to pursue the questions that feel most urgent to them. The

habits, dispositions, and skills taught in these classes may be transferred to communication in a variety of channels--academic, civic, business, personal, and creative. The capacities for critical analysis and nuanced self-expression developed in Writing Program classes will prove useful whatever a student's future endeavors.

Required courses: Students must complete two one-semester writing courses. Students take Writing as Inquiry, the first-year writing workshop, the spring of their first year. Students are placed in either Writing I or Writing II; in Writing I, students spend additional time focused on areas of rhetoric, grammar, and style that are relevant to second language learners. Students must complete Writing as Inquiry (receiving a C or higher) before advancing to Perspectives on the Humanities, which is offered in the fall of the sophomore year (Perspectives on the Humanities also satisfies one Cultural Foundations requirements; see "Social and Cultural Foundations").

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.

Mathematics 4

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.

- AP Calculus AB or BC: Score of 4 or higher
- IB Mathematics: Score of 6 or higher
- A Level Mathematics: Score of B or higher
- NYU Shanghai Placement Into Calculus

5 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.

Students are required to take one course from the category Experimental Discovery in the Natural World, which is composed of laboratory-based courses. Students are also required to take one course from the category Science, Technology, and Society, which is composed of non-laboratory-based courses that explore the impact of scientific thinking and innovations on our lives.*

* Students who are pursuing degrees in science disciplines—or who are taking the pre-health curriculum—will be required to take a rigorous, three-semester sequence of courses covering the fundamentals of basic science. Emphasis is placed on science as a process, from hypothesis development to testing and experimentation, on data collection, and on drawing conclusions. All of the courses in this sequence have a project-based laboratory component. In its totality, this sequence is the equivalent of full-year introductory courses in physics, chemistry, and biology. Biology, Neural Science, and Chemistry majors are not required to take Foundations of Physics III Honors and may substitute General Physics I & II for the Foundations of Physics I & II Honors courses. Physics majors are not required to take Foundations of Biology II. For more details, see the degree requirements of each major.

The relevant exam scores which may be used to wholly or partially fulfill the Core Curriculum Science requirement are listed below. No corresponding credit is awarded and otherwise specified below test scores cannot be used to fulfill prerequisite for upper-level courses in that area.

Core Curriculum Science Category

Can be fulfilled by these exams (though no credit is given)

Science Technology and
Society (STS)

- AP Environmental Science: Score of 4 or higher

Experimental
Discovery (ED)

- AP Psychology: Score of 4 or higher fulfills core; score of 5 fulfills core and course equivalency for PSYCH-SHU 101
- IB Psychology HL (Higher Level): Score of 6 or higher fulfills core; score of 7 fulfills core and course equivalency for PSYCH-SHU 101
- A Level Psychology: Score of B or higher fulfills core; score of A fulfills core and course equivalency for PSYCH-SHU 101
- AP Physics C- Mech OR AP Physics C – E&M: Score of 4 or higher

Satisfies two categories and
completes the entire Science Core
Requirement:

Experimental
Discovery (ED) AND
Science,
Technology
and Society (STS)

- AP Physics 1 & 2, Chemistry, OR Biology: Score of 4 or higher
- AP Physics C- Mech and AP Physics C – E&M: Score of 4 or higher
- IB Biology HL, Chemistry HL, OR Physics HL: Score of 6 or higher
- A Level Biology, Chemistry, OR Physics: Score of B or higher

Algorithmic
Thinking (AT)

- AP Computer Science A: Score of 4 or higher
- IB Computer Science HL: Score of 4 or higher
- NYU Shanghai Placement into Introduction to Computer Science

6

Algorithmic Thinking

Algorithmic Thinking courses cover the thought processes involved in formulating a problem, designing a solution for that problem within given specifications, and expressing the solution in an ordered series of predefined instructions. Students acquire and hone skills that allow them to organize and analyze data logically, to represent problems in terms of abstractions and patterns, to break these

problems down into smaller parts, and to generalize problem-solving processes to wide scopes of application. All of these courses have a hands-on programming component.

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

- AP Computer Science A: Score of 4 or higher
- IB Computer Science: Score of 4 or higher
- NYU Shanghai Placement Into Introduction to Computer Science

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.

Language 7

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. Engineering and Foundations of Science students are unable to take 4-credit courses in Chinese in their first year because of the course requirements of their major. Therefore, they will be able to complete the Elementary and Intermediate Chinese course requirements by completing two-credit Chinese classes throughout their fall and spring semesters. These two-credit Chinese classes are not open to other major or study-away students. The Chinese language program offers multiple modalities of instruction, including formal intensive coursework during Summer Sessions, online 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 graduate, students must successfully complete the Intermediate Chinese II with a grade of C or better or demonstrate equivalent competency through a placement exam.

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. EAP 100 must be completed in the first year. 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 courses sequences in the sciences will be eligible to take two two-credit EAP 100 seminars in the first year and to complete EAP 101 in the following year. Academic advisors will notify students if they are eligible for the two-credit seminar. Students must successfully complete EAP 101 before the end of their second year and before they study away. 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.

{Part VI}

Overview of Majors

Arts and Sciences

BIOLOGY

CHEMISTRY

ECONOMICS

GLOBAL CHINA STUDIES

HUMANITIES

INTERACTIVE MEDIA ARTS

INTERACTIVE MEDIA + BUSINESS

MATHEMATICS

HONORS MATHEMATICS

NEURAL SCIENCE

PHYSICS

SOCIAL SCIENCE

BIOLOGY

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 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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. Students may not double-major in Biology and Neural Science.

Foundational Courses

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory **OR**
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 11 General Physics I **OR**
- PHYS-SHU 91 Foundations of Physics I Honors
- PHYS-SHU 12 General Physics II **OR**
- PHYS-SHU 93 Foundations of Physics II Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Lab

Note:

- 1) Biology majors are encouraged to complete the above classes in their first 2 years.
- 2) Biology majors are not required to take Foundations of Physics III Honors and may substitute General Physics I & II for Foundations of Physics I & II Honors courses.
- 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. 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. Students with a strong high-school background in physics and maths are also highly recommended to take Foundations of Physics I-IV Honors.

Required Courses

- NEUR-SHU 100 Math Tools for Life Sciences or Biostatistics
- BIOL-SHU 250 Organismal Systems
- CHEM-SHU 225 Organic Chemistry I
- CHEM-SHU 225L Organic Chemistry I Lab
- BIOL-SHU 998 Integrated Science Capstone (This course must be taken in the last semester before graduation)

Biology Electives - Choose Five

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in the NYU's global network with prior approval.

Students are strongly encouraged (but not required) to take Organic Chemistry II as a general elective.

Sample Courses:

- BIOL-SHU 30 Genetics
- BIOL-SHU 31 Genetics Laboratory
- BIOL-SHU 271 Cell Biology: Body's Battle with Cancer
- BIOL-SHU 261 Genomics and Bioinformatics
- BIOL-SHU 263 Developmental Biology
- BIOL-SHU 314 Advanced Cell Biology Lab

- BIOL-SHU 997 Independent Research (*Note that one 4-credit Independent Study is allowed to count towards the Biology major elective*)
- CHEM-SHU 881 Biochemistry I
- CHEM-SHU 882 Biochemistry II
- MATH-SHU 160 Networks and Dynamics
- NEUR-SHU 201 Introduction to Neuroscience

Note: Pre-health students may wish to take Introduction to Psychology or another relevant social sciences course, as required or recommended by some medical schools. Students interested in pursuing careers in the health sciences should meet with advising staff early on to ensure adequate course planning.

Biology Minor

A. Molecular and Cell Biology Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- BIOL-SHU 30 Genetics **OR**
- BIOL-SHU 263 Developmental Biology
- BIOL-UA 36 At the Bench: Applied Molecular Biology DNA Techniques **OR**
- BIOL-UA 37 At the Bench: Applied Cell Biology **OR**
One approved class to count towards this minor

B. Genomics and Bioinformatics Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- BIOL-SHU 261 Genomics and Bioinformatics
- BIOL-SHU 267 Microbiology and Microbial Genomics **OR**
- BIOL-GA 1128 Systems Biology **OR**
- BIOL-UA 58 Evolution

BIOLOGY

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Biology major. It assumes a student begins taking Biology major courses in the first semester of their first year. Sample Schedule 2 offers an alternate plan that involves beginning to pursue a Biology major in the spring semester of the first year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society

Core Class (Calculus)

8 credits:
General Physics I/Foundations of Physics I Honors, Foundations of Chemistry I, and FoS Physics Laboratory

2 credits: English or Chinese

Spring Semester

Writing as Inquiry

Core Class

8 credits:
Foundations of Biology I, Foundations of Chemistry II, and Chemistry II Lab

2 credits: English or Chinese

Year 2

Fall Semester

Perspectives on the Humanities

5 credits:
Organic Chemistry I + Organic Chemistry I Lab

5 credits: Foundations of Biology II and FoS Biology Laboratory

Chinese, or General Elective

Spring Semester

5 credits: General Physics II/ Foundations of Physics II Honors, and Physics II Lab

Organismal Systems

Math Tools for Life Sciences

Chinese, English, or General Elective (Organic Chemistry II for pre-med students)

Year 3

Fall Semester

Biology Elective

Biology Elective

Chinese, or General Elective

General Elective

Spring Semester

Biology Elective

General Elective

General Elective

General Elective

Year 4

Fall Semester

Biology Elective

General Elective

General Elective

General Elective

Spring Semester

Integrated Science Capstone

Biology Elective

General Elective

General Elective

BIOLOGY

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	3 credits: Foundations of Biology I	English, Chinese, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	10 credits: Foundations of Biology II, Foundations of Chemistry I, FoS Biology Laboratory, and FoS Chemistry Laboratory	Chinese, or General Elective	No Class
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Spring Semester

Math Tools for Life Sciences	Organismal Systems	3 credits: Foundations of Chemistry II	Biology Elective, Chinese, or General Elective
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Year 3

Fall Semester

5 credits: Organic Chemistry I + Organic Chemistry I Lab	Biology Elective	Biology Elective	General Elective
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Spring Semester

Biology Elective	Biology Elective	General Elective (Could be Organic Chemistry II for pre-med students)	General Elective
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Year 4

Fall Semester

5 credits: General Physics I/Foundations of Physics I Honors, and FoS Physics Laboratory	General Elective	General Elective	General Elective
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Spring Semester

5 credits: General Physics II/Foundations of Physics II Honors, and Physics II Lab	Integrated Science Capstone	General Elective	General Elective
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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 last semester in an Integrate Science Capstone course. Advanced students 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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval.

GPA minimum requirement

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.

Foundational Courses

- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 11 General Physics I **OR**
- PHYS-SHU 91 Foundations of Physics I Honors
- PHYS-SHU 12 General Physics II **OR**
- PHYS-SHU 93 Foundations of Physics II Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Lab

Note:

- 1) Chemistry majors are strongly encouraged to complete the above classes in their first 2 years.
- 2) Chemistry majors are not required to take Foundations of Physics III Honors and may substitute Foundations of Physics I & II Honors for General Physics I & II.
- 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. 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 recommended to take Foundations of Physics III Honors and Foundations of Physics IV Honors. Students with a strong high-school background in physics and mathematics are also recommended to take Foundations of Physics I- IV Honors.

Required Courses

- CHEM-SHU 225 Organic Chemistry I +Organic Chemistry I Lab
- CHEM-SHU 226 Organic Chemistry II + Organic Chemistry II Lab
- CHEM-SHU 651 Physical Chemistry: Quantum Mechanics and Spectroscopy
- CHEM-SHU 652 Physical Chemistry: Thermodynamics and Kinetics
- CHEM-SHU 661 Physical Chemistry Laboratory
- MATH-SHU 151 Multivariable Calculus
- CHEM-SHU 998 Integrated Science Capstone

Chemistry Electives - Choose Three

- CHEM-SHU 285 Experimental Biochemistry
- CHEM-SHU 310 Biophysical Chemistry
- CHEM-SHU 312 Analytical Chemistry
- CHEM-SHU 711 Inorganic Chemistry
- CHEM-SHU 752 Computational Chemistry

- CHEM-SHU 881 Biochemistry I
- CHEM-SHU 882 Biochemistry II
- CHEM-SHU 997 Independent Study

Note:

- 1) The Integrated Science Capstone must be taken in the last semester before graduation.
- 2) Students interested in pursuing graduate study in Chemistry are strongly encouraged to take Inorganic Chemistry.
- 3) 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.

General Electives

Students may take any courses in NYU's global network to satisfy the general elective requirements, but are strongly encouraged to take the following mathematics and computer science courses.

Recommended Mathematics General Electives:

- MATH-SHU 235 Probability and Statistics
- MATH-SHU 265 Linear Algebra and Differential Equations

Recommended Computer Science General Elective:

- CSCI-SHU 11 Introduction to Computer Programming
- CSCI-SHU 101 Introduction to Computer Science

Chemistry Minor

- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory
- CHEM-SHU 128 Chemistry II Lab
- CHEM-SHU 225 Organic Chemistry I + Organic Chemistry I Lab
- CHEM-SHU 226 Organic Chemistry II + Organic Chemistry II Lab

CHEMISTRY

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a chemistry major. It assumes a student begins taking chemistry courses in the first semester of their first year. Sample Schedule 2 offers an alternate plan that pursues a chemistry major beginning in the fall semester of the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society I	Core Class (Calculus)	8 credits: Foundations of Chemistry I, FoS Chemistry Laboratory, and General Physics I/Foundations of Physics I Honors	2 credits: English or Chinese
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Spring Semester

Writing as Inquiry	Multivariable Calculus	8 credits: Foundations of Chemistry II, Chemistry II Lab, General Physics II/Foundations of Physics II Honors	2 credits: English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	5 credits: Organic Chemistry I + Lab	2 credits: FoS Physics I Laboratory	Core, Chinese or General Elective
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Spring Semester

Core Class	5 credits: Organic Chemistry II + Lab	2 credits: Physics II Lab	Chinese, English or General Elective
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Year 3

Fall Semester

Physical Chemistry: Quantum Mechanics and Spectroscopy	Chemistry Elective	Chinese or General Elective	General Elective
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Spring Semester

Physical Chemistry Laboratory	Physical Chemistry: Thermodynamics and Kinetics	Chemistry Elective, e.g. Inorganic Chemistry	Chinese or General Elective
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Year 4

Fall Semester

Chemistry Elective	General Elective	General Elective	General Elective
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Spring Semester

Integrated Science Capstone	General Elective	General Elective	General Elective
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CHEMISTRY

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core or General Elective	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class (Calculus)	Core or General Elective	English, Chinese, General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	10 credits: Foundations of Chemistry I, FoS Chemistry Laboratory, General Physics I/Foundations of Physics I Honors, and FoS Physics Laboratory	No Class	English, Chinese, General Elective
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Spring Semester

Multivariable Calculus	10 credits: Foundations of Chemistry II, Chemistry II Lab, General Physics II/Foundations of Physics II Honors, and Physics II Lab	No Class	English, Chinese, General Elective
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Year 3

Fall Semester

5 credits: Organic Chemistry I + Lab	Physical Chemistry: Quantum Mechanics and Spectroscopy	Chemistry Elective	Chinese or General Elective
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Spring Semester

5 credits: Organic Chemistry II + Lab	Physical Chemistry: Thermodynamics and Kinetics	Physical Chemistry Laboratory	Chinese or General Elective
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Year 4

Fall Semester

Chemistry Elective	Chemistry Elective	General Elective	General Elective
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Spring Semester

Integrated Science Capstone	General Elective	General Elective	General Elective
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ECONOMICS

The best way to understand the world you live in is arguably to understand the economics that drive it. The world is constantly and increasingly confronted with public policy 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 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.
- Effective economic analysis increasingly involves both conducting and effectively communicating the results from quantitative analyses of data using econometric methods.

Building on these principles, the Economics major is designed to foster rigorous analytical abilities both in neoclassical and behavioral economics, critical writing and communication skills, and the capacity to interpret and use statistical data—all in the service of developing sound economic reasoning and problem-solving skills. These transferable strengths are of value in a broad array of academic and professional paths, from economics, business, or law, to public service or graduate studies.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a 4-credit required course but note that a 2-credit course with a similar title or content will not by itself meet the requirement of the named required course.

Economics major students must either take Calculus (MATH-SHU 131), place out of Calculus, or take Honors Calculus, in order to satisfy the Mathematics requirement in the core curriculum.

Required Courses

- ECON-SHU 1 Principles of Macroeconomics *OR*
- ECON-SHU 251 Economics of Global Business
- ECON-SHU 3 Microeconomics *OR*
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 10 Intermediate Microeconomics
- ECON-SHU 202 Intermediate Macroeconomics
- ECON-SHU 301 Econometrics
- MATH-SHU 235 Probability and Statistics *OR*
- BUSF-SHU 101 Statistics for Business and Economics

Economics Electives - 24 Credits, at least 8 credits must be from "Advanced Economics Electives" and at least one course must be from "Economics Capstone Electives"

The courses listed below are not an exhaustive list. If you would like to see if a course not listed below can count as an Economics Elective, please contact your advisor to have the course reviewed.

Advanced Economics Electives

- ECON-SHU 201 Mathematics for Economists (*substituted by taking both Linear Algebra AND Multivariable Calculus*)
- ECON-SHU 225 Advanced Economic Theory
- ECON-SHU 402 Advanced Econometrics
- ECON-SHU 409 Advanced Topics in Macroeconomics
- ECON-SHU 416 Game Theory: Advanced Applications
- ECON-SHU 423 Econometrics for High Dimensional and Financial Data

Economics Electives

- BPEP-SHU 9042 The Political Economy of East Asia (formerly ECON-SHU 211)
- BPEP-SHU 238 International Economics
- ECON-SHU 5 Math for Econ 1: Optimization
- ECON-SHU 207 Urban and Real Estate Economics
- ECON-SHU 213 Causal Inference in the Social Sciences
- ECON-SHU 215 Economic History
- ECON-SHU 216 Introduction to Game Theory
- ECON-SHU 238 History of Modern Economic Growth: Exploring China From a Comparative Perspective
- ECON-SHU 260 International Trade
- ECON-SHU 306 Economics of Education
- ECON-SHU 316 Industrial Organization
- ECON-SHU 317 Quantitative Methods for the Economics of Gender
- ECON-SHU 332 Monetary Economics
- ECON-SHU 335 Development Economics
- ECON-SHU 338 International Economics
- ECON-SHU 342 Behavioral Economics
- ECON-SHU 349 Health Economics
- ECON-SHU 351 Labor Economics
- ECON-SHU 353 Public Economics
- ECON-SHU 355 Law and Economics
- ECON-SHU 360 Experimental Economics

- ECON-SHU 368 Financial Economics
 - ECON-SHU 997 Economics Independent Study
- Economics Capstone Electives**
- ECON-SHU 451 Economics Capstone Research
 - ECON-SHU 453 Economics Honors Program (same as BUSF-SHU 3 Business Honors Program)

Economics Minor

- BUSF-SHU 101 Statistics for Business and Economics **OR**
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability **OR**
- MATH-SHU 234 Mathematical Statistics
- ECON-SHU 1 Principles of Macroeconomics **OR**
- ECON-SHU 251 Economics of Global Business
- ECON-SHU 3 Microeconomics **OR**
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 202 Intermediate Macroeconomics **OR**
- ECON-SHU 10 Intermediate Microeconomics
- 8 credits from the Economics elective list

ECONOMICS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing an Economics major. It assumes a student begins taking Economics major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core or Principles of Macroeconomics	English or Chinese
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Spring Semester

Writing as Inquiry	Microeconomics	Probability and Statistics or alternate courses	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Intermediate Macroeconomics	Principles of Macroeconomics or Econometrics	Chinese or Core
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Spring Semester

Intermediate Macroeconomics	Econometrics or Multivariate Calculus or Mathematics for Economists	Economics Elective or Core	Chinese or Core
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Year 3

Fall Semester

Core Class	Economics Elective	General Elective	General Elective
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Spring Semester

Core Class	Economics Elective	Advanced Economics Elective	General Elective
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Year 4

Fall Semester

Core Class	Advanced Economics Elective	General Elective	General Elective
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Spring Semester

Core Class	Economics Capstone Research	General Elective	General Elective
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ECONOMICS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Pre-Calculus or Calculus)	Core or General Elective	English or Chinese
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Spring Semester

Writing as Inquiry	Calculus or Core Class	Core or General Elective	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Microeconomics	Probability and Statistics or alternate courses	Core or General Elective
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Spring Semester

Principles of Macroeconomics	Econometrics	Mathematics for Economists or Multivariate Calculus or General Elective	Core or General Elective
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Year 3

Fall Semester

Intermediate Microeconomics	Intermediate Macroeconomics	Core or General Elective	General Elective
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Spring Semester

Core or General Elective	Economics Elective	Economics Elective	General Elective
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Year 4

Fall Semester

Core or General Elective	Economics Elective	Advanced Economics Elective	Economics Capstone Elective
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Spring Semester

Core or General Elective	Advanced Economics Elective	Economics Capstone Elective	General Elective
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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 comprehend 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.

REQUIREMENTS FOR THE MAJOR

GCS Major - Total Major Credits: 36

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.

Required Courses: 20 credits

GCHN-SHU 110 The Concept of China (4 credits)

China and the World: Choose Two (8 credits)

Courses in this category focus on China in a broader global setting, concentrating on its contacts, historical and/or contemporary, with the outside world. The aim is to examine the dynamics of Chinese history, politics, economy, and culture as interconnected and integrated with various regions of the world. Select two of the following:

- GCHN-SHU 164 The History of the Silk Road(s) (Originally: The Stuff of Legends: The Many Meanings of the Early Silk Road(s))
- GCHN-SHU 252 20th-Century East Asian-American Relations
- GCHN-SHU 264 Chinese Migrant and Diasporic Network
- HIST-SHU 250 Tianxia: Traditional China and the World (Originally: China at the Center? An Exploration of Chinese Foreign Relations)
- HIST-SHU 312 China Encounters the World
- HIST-SHU 313 China Goes Global: How China and the World Changed Each Other
- SCA-SHU 9634 Global Connections: Shanghai
- SOCS-SHU 341 Cross-Strait Relations

Two-semester capstone course (8 credits)

Fall Semester: Methodologies in China Studies; Spring Semester: Research Project Seminar.

The first semester of this two-semester capstone course will focus on the methodologies of China-related research, 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 GCS major do not have to demonstrate competency in reading and analyzing Chinese language sources.

Global China Studies Electives (16 Credits)

Choose four courses from the list, with at least one course from each of the following three categories:

1. 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.

Sample courses:

- CCSF-SHU 122 Traditional Chinese Wisdom and Its Transformation in Modern Times
- GCHN-SHU 165 The Islamic World and China
- GCHN-SHU 200 Topics in Global China Studies: Chinese Opera - From Page to Stage
- GCHN-SHU 200 Topics in Global China Studies: The Lotus Sutra in East Asia
- GCHN-SHU 224 Chinese Maritime History

- GCHN-SHU 231 Social and Cultural Debates in 20th Century China
- GCHN-SHU 255 Eat, Pray, Ponder: Chinese Intellectual Culture Through Ages
- GCHN-SHU 267 The Cultivated City
- HIST-SHU 145 Food and Drugs in Chinese History
- HIST-SHU 153 History of Modern China
- HIST-SHU 379 The Social Life of Things: Functions of Material Culture in Ancient China
- PHIL-SHU 105 Introduction to Chinese Philosophy
- RELS-SHU 9270 Religion and Society in China

2.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.

Sample courses:

- CCCF-SHU 128 Contemporary Art & New Media
- CCCF-SHU 133 Journalism and Society in China
- GCHN-SHU 222 History of Chinese Cinemas
- GCHN-SHU 230 Culture and Media in Urban China
- GCHN-SHU 263 Voices from the Margin: Modern Chinese and Sinophone Studies
- HUMN-SHU 229 Masters of Asian Cinema
- HUMN-SHU 366 (266) Shanghai Stories
- INTM-SHU 268 Acoustic Ethnography of the Yangtze River Delta
- MCC-SHU 9451 Global Media Seminar: China

3.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.

Sample courses:

- BUSF-SHU 188 Chinese Business and Financial: A Bilingual Introduction
(CHIN-SHU 429)
- BUSF-SHU 288 Doing Business in China
- CCSF-SHU 123 Contemporary Chinese Political Thought
- ECON-SHU 238 History of Modern Economic Growth: Exploring China From a Comparative Perspective
- GCHN-SHU 240 Modern Chinese Governance
- GCHN-SHU 243 Chinese Environmental Studies
- GCHN-SHU 342 Political Economy of East Asia
(BPEP-SHU 9042)
- LWSO-SHU 9251 Law Culture and Politics in China
- SOCS-SHU 160 Intro to International Politics
- SOCS-SHU 275 US-China Relations
- SOCS-SHU 450 Chinese Environmental Governance

Study Abroad: Students enrolled in this track may study abroad for a maximum of two semesters.

Global China Studies minor

Four classes from the required and elective list of Global China Studies courses, of which at least one must be from the required list. Students may take up to two advanced or post-advanced language courses in fulfillment of this minor.

Global China Studies

SAMPLE SCHEDULE 1

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	The Concept of China	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	China and the World	GCS Elective	Core, Chinese or General Elective
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Spring Semester

China and the World	GCS Elective	Core Class	Core, Chinese or General Elective
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Year 3

Fall Semester

GCS Elective	General Elective	General Elective	General Elective
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Spring Semester

GCS Elective	General Elective	General Elective	General Elective
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Year 4

Fall Semester

General Elective	GCS Capstone	Core Class	General Elective
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Spring Semester

General Elective	GCS Capstone	General Elective	General Elective
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Global China Studies

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core class	Core class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Core or General Elective	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	The Concept of China	China and the World	Core or Chinese
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Spring Semester

China and the World	GCS Elective	Core Class	Core or Chinese
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Year 3

Fall Semester

GCS Elective	GCS Elective	General Elective	General Elective
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Spring Semester

GCS Elective	General Elective	General Elective	General Elective
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Year 4

Fall Semester

General Elective	GCS Capstone	Core Class	General Elective
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Spring Semester

General Elective	GCS Capstone	General Elective	General Elective
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REQUIREMENTS FOR THE MAJOR

Advanced GCS Track - Total Major Credits: 40

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.

Required Courses: 28 Credits

GCHN-SHU 110 The Concept of China (4 credits)

China and the World (4 Credits)

Courses in this category focus on China in a broader global setting, focusing on its contacts (historical and/or contemporary) with the outside world. The aim is to examine the dynamics of Chinese history, politics, economy, and culture as interconnected and integrated with various regions of the world.

Select one of the following:

- GCHN-SHU 164 The History of the Silk Road(s) (Originally: The Stuff of Legends: The Many Meanings of the Early Silk Road(s))
- GCHN-SHU 252 20th-Century East Asian-American Relations
- GCHN-SHU 264 Chinese Migrant and Diasporic Networks
- HIST-SHU 250 Tianxia: Traditional China and the World (Originally: China at the Center? An Exploration of Chinese Foreign Relations)
- HIST-SHU 312 China Encounters the World
- HIST-SHU 313 China Goes Global: How China and the World Changed Each Other
- SCA-SHU 9634 Global Connections: Shanghai
- SOCS-SHU 341 Cross-Strait Relations

Language courses (8 Credits)

Non-Native Chinese Speakers: Advanced Chinese I & II, with Advanced II as a “Reading Newspaper” course

Native Chinese speakers must take the Reading Newspaper course and an additional elective from the list below

Chinese for Advanced Undergraduate Research (4 Credits)

This aim of these courses is to expand Chinese language research skills. Students will read, analyze, and use Chinese language sources to write, in English, response reports and research paper(s). The courses under this category will be taught in English. Select one of the following:

- GCHN-SHU283 Reading and Viewing Modern China
- GCHN-SHU 200 Topics in Global China Studies: Introduction to Classical Chinese
- GCHN-SHU 233 Foreign Societies in Classical Chinese Writing

Two-semester capstone course (8 Credits)

Fall Semester: Methodologies in China Studies; Spring Semester: Research Project Seminar.

The first semester of this two-semester capstone course will focus on the methodologies of China-related research, 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.

Global China Studies Electives (12 Credits): Take one course each from the following three categories:

1. 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.

Sample courses:

- CCSF-SHU 122 Traditional Chinese Wisdom and Its Transformation in Modern Times
- GCHN-SHU 165 The Islamic World and China
- GCHN-SHU 200 Topics in Global China Studies: Chinese Opera - From Page to Stage
- GCHN-SHU 200 Topics in Global China Studies: The Lotus Sutra in East Asia
- GCHN-SHU 224 Chinese Maritime History
- GCHN-SHU 231 Social and Cultural Debates in 20th Century China
- GCHN-SHU 255 Eat, Pray, Ponder: Chinese Intellectual Culture Through Ages
- GCHN-SHU 267 The Cultivated City
- HIST-SHU 145 Food and Drugs in Chinese History
- HIST-SHU 153 History of Modern China
- HIST-SHU 379 The Social Life of Things: Functions of Material Culture in Ancient China
- PHIL-SHU 105 Introduction to Chinese Philosophy
- RELS-SHU 9270 Religion and Society in China

2. 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.

Sample courses:

- CCCF-SHU 128 Contemporary Art & New Media
- CCCF-SHU 133 Journalism and Society in China
- GCHN-SHU 222 History of Chinese Cinemas
- GCHN-SHU 230 Culture and Media in Urban China
- GCHN-SHU 263 Voices from the Margin: Modern Chinese and Sinophone Studies
- HUMN-SHU 229 Masters of Asian Cinema
- HUMN-SHU 366 (266) Shanghai Stories
- INTM-SHU 268 Acoustic Ethnography of the Yangtze River Delta
- MCC-SHU 9451 Global Media Seminar: China

3. 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.

Sample courses:

- BUSF-SHU 188 Chinese Business and Financial: A Bilingual Introduction
(CHIN-SHU 429)
- BUSF-SHU 288 Doing Business in China
- CCSF-SHU 123 Contemporary Chinese Political Thought
- ECON-SHU 238 History of Modern Economic Growth: Exploring China From a Comparative Perspective
- GCHN-SHU 240 Modern Chinese Governance
- GCHN-SHU 243 Chinese Environmental Studies
- GCHN-SHU 342 Political Economy of East Asia
(BPEP-SHU 9042)
- LWSO-SHU 9251 Law Culture and Politics in China
- SOCS-SHU 160 Intro to International Politics
- SOCS-SHU 275 US-China Relations
- SOCS-SHU 450 Chinese Environmental Governance

Study Abroad: Students enrolled in the Advanced Global China Studies track may only spend no more than one semester abroad.

Advanced Global China Studies

SAMPLE SCHEDULE 1

For students who have advanced Chinese language skills and start to take Advanced Chinese I course in their first semester of second year.

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class	The Concept of China	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	China and the World	Advanced Chinese Course 1	Core or General Elective
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Spring Semester

GCS Elective	Advanced Chinese course 2	Core Class	Core, Chinese or General Elective
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Year 3

Fall Semester

GCS Elective	General Elective	General Elective	General Elective
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Spring Semester

GCS Elective	Chinese for Advanced Undergraduate Research	General Elective	General Elective
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Year 4

Fall Semester

General Elective	GCS Capstone	Core Class	General Elective
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Spring Semester

GCS Capstone	General Elective	General Elective	General Elective
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Advanced Global China Studies

SAMPLE SCHEDULE 2

For students who start to take Advanced Chinese I in their first semester of third year

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Core or General Elective	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	The Concept of China	Core or General Elective	Core or Chinese
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Spring Semester

China and the World	GCS Elective	Core Class	Core or Chinese
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Year 3

Fall Semester

General Elective	Advanced Chinese Language Course 1	GCS Elective	General Elective
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Spring Semester

GCS Elective	Advanced Chinese Language Course 2	General Elective	General Elective
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Year 4

Fall Semester

GCS Capstone	Chinese for Advanced Undergraduate Research	Core Class	General Elective
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Spring Semester

GCS Capstone	General Elective	General Elective	General Elective
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HUMANITIES

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 history, philosophy, literature, religion, film and media, and cultural studies. Humanities students engage with Asian, African, European, American, and Oceanian cultures and intellectual traditions. They learn to employ multiple disciplinary perspectives, and to engage with a wide range of different sources.

The Humanities major provides students with refined skills in critical reading, academic writing, interpretation, analysis and argument that are both highly valuable and highly transferable. Humanities majors graduate with the capacity to critically engage with our globalizing world, to contribute to contemporary scholarship, and to pursue a wide range of careers.

In the Humanities core courses, students acquire a set of methods for humanistic inquiry. Students then develop an area of thematic or disciplinary focus by taking courses in Shanghai and other NYU sites in consultation with advisors. In the senior year, they take the Capstone Course and produce a final thesis to showcase their intellectual development.

REQUIREMENTS FOR THE MAJOR

Humanities Major Requirements - 46 credits

With advisement and guided planning from the student's academic advisor and Humanities faculty, a student must take the following courses in order to meet the requirements for the Humanities major:

Introductory courses - 16 credits (at least 8 credits of which must be Foundations courses)

Foundations Courses - Choose at least 8 credits from this category

These are a sub-species of introductory courses that provide students with a reflective introduction to the methods and/or fundamental theories in a particular discipline. Appropriate introductory courses offered by faculty from other majors may also be classified as Foundations courses for purposes of the Humanities major, for example a methodologically oriented introduction to anthropology.

Courses that satisfy this requirement include but are not limited to:

- PHIL-SHU 150 What is Philosophy?
- LIT-SHU-101 What is Literature?
- HIST-SHU 130 What is History?

Other Introductory Courses

- GCHN-SHU 110 Concept of China
- PHIL-SHU 40 Ethics
- PHIL-SHU 105 Introduction to Chinese Philosophy
- CRWR-SHU 159 Introduction to Creative Writing
(WRIT-SHU 159)
- HIST-SHU 110 U.S. History Through Literature and Film
- HIST-SHU 126 World History: Part I
- HIST-SHU 127 World History: Part II
- HIST-SHU 153 History of Modern China Since 1840
- LIT-SHU-185 Gender and Migration in Islam
- HUMN-SHU 231 Contemporary Art History and Theory in North American and Europe
- GCHN-SHU 263 Voices from the Margin: Modern Chinese and Sinophone Writers
- GCHN-SHU 264 Chinese Migrant and Diasporic Networks
- RELS-SHU 9270 Religion and Society in China
- INTM-SHU 295-001 Digital Media and Culture

24 credits Advanced courses (at least 4 credits of which must be an Interdisciplinary course, and such that at least 12 credits fit together thematically in a way that can serve as a basis for a capstone project).

Interdisciplinary Courses - Choose at least 4 credits from this category

These are a sub-species of advanced courses that are explicitly interdisciplinary in orientation. For example, they may involve both historical and literary approaches to a topic, or philosophical and historical approaches to a topic, or literary and philosophical approaches to a topic. It is recommended that at least one Foundations course in a relevant discipline be a prerequisite.

Courses that satisfy this requirement include but are not limited to:

- SOCS-SHU 229 Capitalism, Socialism, Communism: Theory and Practice
- SOCS-SHU 272 The U.S. Constitution: Is It Relevant to China?
- HUMN-SHU 366 Shanghai Stories
- PHIL-SHU 130 Philosophy of Technology

Other Advanced Courses

Courses that satisfy this requirement include but are not limited to:

- CCCF-SHU 128 Contemporary Art & New Media
(ART-SHU 9077)
- LIT-SHU 246 Introduction to Gender and Feminism in African Literature
- HIST-SHU 232 Moments of Europe

- PHIL-SHU 80 Philosophy of Mind
- PHIL-SHU 90 Philosophy of Science
- PHIL-SHU 91 Philosophy of Biology
- PHIL-SHU 130 Philosophy of Technology: Thinking Machines
- HIST-SHU 303 Histories and Politics of Noise
- HIST-SHU 239 New York: History of the City
- HUMN-SHU 240 Gender, Sexuality, and Culture
- HUMN-SHU 200 French Cinema: The Birth of the Seventh Art
- HIST-SHU 208 War and Peace: Europe Since 1900
- HIST-SHU 225 Global Space Age
- HIST-SHU 209 Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700
- HUMN-SHU 168 Penning the Self(ie): Writing the Human Condition
- HIST-SHU 313 China Goes Global: How China and the World Transformed Each Other
- HUMN-SHU 366 Shanghai Stories
- LIT-SHU 253 Comparative Islamic Feminisms in World Literature
- RELS-SHU 9270 Religion and Society in China: Gods, Ghosts, Buddhas and Ancestors
- WRIT-SHU 219 Intermediate Fiction Workshop

Note: At least 12 credits (usually three 4-credit courses) 24 credits of 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 are required to make this selection by the end of the Spring semester of their Sophomore year, advised by the professor instructing the capstone seminar in consultation with the area leader, who is responsible for approving the selection.

One example of a thematically linked sequence of courses (in this case a multidisciplinary sequence, linked by the topic of gender):

- HUMN-SHU 240 Gender, Sexuality, and Culture
- LIT-SHU 253 Comparative Islamic Feminisms in World Literature
- HIST-SHU 209 Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700

Another example of a thematically linked sequence of courses (in this case a disciplinary sequence, linked by the methodology of philosophy):

- PHIL-SHU 80 Philosophy of Mind
- PHIL-SHU 90 Philosophy of Science
- PHIL-SHU 91 Philosophy of Biology

Capstone Sequence - 6 credits

In their final year of course work, Humanities majors are required to complete a substantial research project during a two-semester sequence of capstone courses. The credits for the capstone courses will be distributed across the Fall and Spring semesters as follows:

In the Fall semester, students earn 2 credits for enrolling in the Humanities Capstone Seminar (HUMN-SHU 400A) and completing the required sequence of preparatory assignments for their research project. In the Spring semester, they may choose one of the following two options:

Option 1: Continue their research projects with the capstone instructor and turn in the capstone thesis with all other required work for the course (4 credits).

Option 2: Continue in an Advanced 4-credit course, and complete the capstone thesis as part of the course with approval and advisement from the instructor of the course. Students selecting Option 2 should inform their academic advisor and the Humanities Area Leader of their decision before the end of Fall semester.

In total, the Capstone sequence accounts for 6 credits total in two courses, the 2-credit Capstone Seminar in the Fall semester and a 4-credit research based course in the Spring semester.

HUMANITIES

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Humanities major. It assumes a student begins taking Humanities major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Humanities Introductory Course (foundations)	Core Class or General Elective	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Humanities Introductory Course	Humanities Introductory Course (foundations)	Core, General Elective or Chinese
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Spring Semester

Core Class	Humanities Introductory Course	Core Class	Core, General Elective or Chinese
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Year 3

Fall Semester

Core or General Elective	Humanities Advanced course (Interdisciplinary course)	Humanities Advanced course	General Elective
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Spring Semester

Humanities Advanced course	Humanities Advanced course	General Elective	General Elective
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Year 4

Fall Semester

Humanities Advanced course	Humanities Advanced course	2-credit Humanities Capstone Seminar	General Elective
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Spring Semester

4-credit Humanities Capstone	General Elective	General Elective	General Elective
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HUMANITIES

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Core Class or General Elective	English, Chinese, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Humanities Introductory Course (foundations)	Humanities Introductory Course	Core Class, General Elective, or Chinese
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Spring Semester

Core Class	Humanities Introductory Course (foundations)	Humanities Introductory Course	Core Class, General Elective, or Chinese
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Year 3

Fall Semester

Humanities Advanced courses (Interdisciplinary course)	Humanities Advanced courses	Core Class	Core class or General Elective
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Spring Semester

Humanities Advanced courses	Humanities Advanced courses	General Elective	General Elective
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Year 4

Fall Semester

Humanities Advanced courses	Humanities Advanced courses	2-credit Humanities Capstone Seminar	General Elective
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Spring Semester

4-credit Humanities Capstone	General Elective	General Elective	General Elective
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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 Application 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, audio, video and the web. Application Lab introduces modern rapid software prototyping, theories of innovation, early-stage business concepts, creative coding and user experience design.

Students then choose from a range of elective categories across the disciplines of art & design, humanities, science, computation, and business with great freedom to make their selections. Students will receive guidance in their choices if they want to specialize in a particular area (business, arts, humanities or computer science). All majors finish with a two semester Capstone Studio course that synthesizes theoretical research and practice to produce an emerging media project and related essay.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill a particular requirement. Requirements may be met through equivalent courses in the global network with prior approval.

Foundations - 12 credits

This foundation is required.

- INTM-SHU 205 What is New Media?

Students may choose any two of the following courses:

- INTM-SHU 101 Interaction Lab
- INTM-SHU 110 Application Lab
- INTM-SHU 120 Communications Lab

Electives - 24 credits

Sample Courses

- INTM-SHU 190 Collective Methods
- INTM-SHU 193 Chinese Cyberculture
- INTM-SHU 201T Construction of Authenticity in Contemporary Art
- INTM-SHU 202T Media Architecture
- INTM-SHU 203T Exploring Movement Practices with Physical Computing
- INTM-SHU 204T Critical Data and Visualization
- INTM-SHU 208D Realtime Audiovisual Performance System
- INTM-SHU 210 The Cultivated City
- INTM-SHU 215 Machine Learning for New Interfaces
- INTM-SHU 221 Creating Immersive Worlds
- INTM-SHU 222 Introduction to Robotics
- INTM-SHU 223 Programming Design Systems
- INTM-SHU 226 Artificial Intelligence Arts
- INTM-SHU 230 Nature of Code
- INTM-SHU 239 Digital Fabrication
- INTM-SHU 249 Street Life & Street Food in the 21st Century City
- INTM-SHU 255 Shenzhen Style
- INTM-SHU 260 Topics in Electronics & Physical Computing: Working With Electrons
- INTM-SHU 260-001 Topics in Electronics & Phys Computing: Kinetic Light
- INTM-SHU 260-002 Topics in Electronics & Phys Computing: Bio-Inspired Robot Systems
- INTM-SHU 266 Digital Heritage
- INTM-SHU 268 Acoustic Ethnography of the Yangtze River Delta
- INTM-SHU 271 Re-Made in China
- INTM-SHU 280 Interactive Motion Design
- INTM-SHU 280C VR/AR Fundamentals
- INTM-SHU 284 Digital Sculpting for Facial Animation
- INTM-SHU 288 Kinetic Interfaces
- INTM-SHU 295-001 Seminar Topics: Digital Media & Culture
- INTM-SHU 295-002 Seminar Topics: From Cyborgs to Siri: Gender, Tech & Media
- BUSF-SHU 211 Design Thinking
- CRWR-SHU 245 Speculative Fictions
- PHIL-SHU 130 Philosophy of Technology: Thinking Machines

Capstone - 8 credits

- INTM-SHU 400 Capstone Studio I
- INTM-SHU 401 Capstone Studio II

REQUIREMENTS FOR THE MINOR

Foundations - 8 credits

Students may choose any two of the following courses:

- INTM-SHU 101 Interaction Lab
- INTM-SHU 110 Application Lab
- INTM-SHU 120 Communications Lab
- INTM-SHU 205 What is New Media?

Electives - 7 - 8 credits

Students may take any 7 - 8 credits worth of electives from the Interactive Media Arts elective list.

INTERACTIVE MEDIA ARTS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a IMA major. It assumes a student begins taking IMA major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class or General Elective	English, Chinese, core or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Interaction Lab or Application Lab or Communications Lab	English, Chinese, core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Interactive Media Elective	Core, Chinese or General Elective
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Spring Semester

Core Class	Interactive Media Elective	Interaction Lab or Application Lab or Communications Lab	Core, Chinese or General Elective
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Year 3

Fall Semester

Interactive Media Elective	Core Class	Interactive Media Elective	General Elective
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Spring Semester

Interactive Media Elective	General Elective	General Elective	General Elective
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Year 4

Fall Semester

Capstone I	Interactive Media Elective	General Elective	General Elective
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Spring Semester

Capstone II	General Elective	General Elective	General Elective
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INTERACTIVE MEDIA ARTS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class or General Elective	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class or General Elective	Core Class	English, Chinese, core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Interactive Media Elective	Core, Chinese or General Elective
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Spring Semester

Core Class	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Interactive Media Elective	Core, Chinese or General Elective
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Year 3

Fall Semester

Interactive Media Elective	What is New Media? or Interaction Lab or Application Lab or Communications Lab	Core Class	General Elective
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Spring Semester

Interactive Media Elective	Interactive Media Elective	General Elective	General Elective
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Year 4

Fall Semester

Capstone I	Interactive Media Elective	General Elective	General Elective
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Spring Semester

Capstone II	General Elective	General Elective	General Elective
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INTERACTIVE MEDIA + BUSINESS

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 Application 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 3 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. 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 Studio course by synthesizing methods of research and practice to produce an interactive project and business plan.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill a particular requirement. Requirements may be met through equivalent courses in the global network with prior approval

Emerging Media Foundation Courses (pick 2 of 4): 8 credits

- INTM-SHU 110 Application Lab
- INTM-SHU 101 Interaction Lab
- INTM-SHU 120 Communications Lab
- INTM-SHU 205 What is New Media

Required Business Foundation Course: 8 credits

- ECON-SHU 251 Economics of Global Business
- BUSF-SHU 250 Principles of Financial Accounting

Business Flexible Core Courses: 8 credits

Choose 2 from the following (sophomore standing required):

- BUSF-SHU 210 Business Analytics
- BUSF-SHU 351 Operations Management
- MGKT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing
- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 202 Foundations of Finance

Business Elective Courses: 12 credits

Any Business core or elective

Sample Courses:

- BUSF-SHU 311 New Venture Strategy
- BUSF-SHU 142 Information Technology in Business and Society
- MKTG-SH 110 Branding and Innovation

Interactive Media Arts/Business Elective Courses: 20 credits

Sample Courses:

- INTM-SHU 226 Artificial Intelligence Arts
- INTM-SHU 232 Critical Data and Visualization
- IMBX-SHU 211 Design Thinking
- IMBX-SHU 101T Life Design
- IMBX-SHU 102T Global Experience Design
- IMBX-SHU 103T Understanding Financial Technology
- CCST-SHU 132 Creativity Considered

A complete and current list of courses is available at: ima.shanghai.nyu.edu/curriculum/

Capstone Studio: 8 credits

Important Notes:

- IMB majors are subject to the general degree requirements of NYU Shanghai. They must complete 128 total credits with a cumulative grade point average of at least 2.0.
- IMB majors are not able to double major in either Business & Finance, Business & Marketing, or Interactive Media Arts.
- The required Business & Finance and Business & Marketing course, Foundations of Finance, is optional for IMB majors. Students wishing to take Foundations of Finance must fulfill these prerequisites: Calculus, Microeconomics, and Statistics for Business and Economics.
- Microeconomics and Statistics for Business and Economics can be counted as Business electives for IMB majors.
- Students who began NYU Shanghai before the 2018-2019 academic year who have already taken Communications Lab and Interaction Lab may substitute one of them for Application Lab.

INTERACTIVE MEDIA + BUSINESS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a IMB major. It assumes a student begins taking IMB major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, core or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Interaction Lab or Communications Lab or Application Lab or What is New Media	English, Chinese, core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Interaction Lab or Communications Lab or Application Lab or What is New Media	Interactive Media Elective	Core, Chinese or General Elective
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Spring Semester

Economics of Global Business	Principles of Financial Accounting	Interactive Media Elective	Core, Chinese or General Elective
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Year 3

Fall Semester

Interactive Media Elective	Core Class	Business Flexible Core	Core or General Elective
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Spring Semester

Interactive Media Elective	Business Flexible Core	Business Elective	Business Elective
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Year 4

Fall Semester

Capstone Seminar (IMB)	General Elective	Business Elective	General Elective
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Spring Semester

Capstone Seminar (IMB)	Interactive Media Elective	General Elective	General Elective
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INTERACTIVE MEDIA + BUSINESS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Core Class or General Elective	Core Class	English, Chinese, core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Interaction Lab or Communications Lab or Application Lab or What is New Media	Interactive Media Elective	Core, Chinese or General Elective
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Spring Semester

Economics of Global Business	Interaction Lab or Communications Lab or Application Lab or What is New Media	Principles of Financial Accounting	Core, Chinese or General Elective
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Year 3

Fall Semester

Interactive Media Elective	Interactive Media Elective	Core Class	Business Flexible Core
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Spring Semester

Interactive Media Elective	Business Flexible Core	Business Elective	Interactive Media Elective
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Year 4

Fall Semester

Capstone Seminar (IMB)	Business Elective	Interactive Media Elective	General Elective
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Spring Semester

Capstone Seminar (IMB)	Business Elective	General Elective	General Elective
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MATHEMATICS

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, develop powerful artificial intelligence, analyze financial markets, model the physical universe, develop predictions for climate science, map and study the human genome, or analyze the structure of the human brain. Mathematics draws vitality from questions arising in nature, as well as from applications to industry and technology, and yet it is grounded in rigor and abstraction.

The Mathematics major is designed to give a comprehensive training in both mathematics and its applications to prepare for a career in industry, to give a solid background for computer science, physics, chemistry, engineering, data science, operations research, and other disciplines, or to pursue more advanced degree programs. Courses required for the Mathematics major provide essential training and experience in analysis, algebra, differential equations, and probability theory. Mathematics elective courses cover numerous topics of pure and applied mathematics, including statistics, numerical analysis, partial differential equations, topology, differential geometry, scientific computing, mathematical finance, abstract algebra, number theory, and functional analysis.

NYU Shanghai offers two degree tracks in Mathematics: Mathematics and Honors Mathematics. Students who are interested in pursuing graduate study in Mathematics are encouraged to consider the Honors Mathematics degree. The Honors Mathematics degree also provides a strong basis to studies in other sciences, from physics to data science, and students are encouraged to explore elective courses in these disciplines.

REQUIREMENTS FOR THE MAJOR

Math major students must either take Calculus, place out of Calculus, or take Honors Calculus, in order to satisfy the Mathematics requirement in the core curriculum. If Honors Calculus is used for the Core requirement, it may not be used as a "Constrained Math Elective" for the major as listed below.

To fulfill the Core Curriculum Science requirement, Math/ Honors Math majors must choose two lecture courses plus one lab from the following list. Please note prerequisite courses for planning and course selection.

Lecture sections (choose two):

- Foundations of Biology I (BIOL-SHU 21), Foundations of Biology II (BIOL-SHU 21)
- General Physics (PHYS-SHU 11) or Foundations of Physics Honors (PHYS-SHU 91), General Physics II (PHYS-SHU 12 or Foundations of Physics II Honors (PHYS-SHU 93)
- Foundations of Chemistry I (CHEM-SHU 125), Foundations of Chemistry II (CHEM-SHU 126)

Lab sections (choose one):

- FoS Biology Laboratory (BIOL-SHU 123)
- FoS Physics Laboratory (PHYS-SHU 71), Physics II Lab (PHYS-SHU 94)
- FoS Chemistry Laboratory (CHEM-SHU 127)

Not every course listed is taught every semester, and in any given semester other courses may be offered as a replacement. Requirements may be met through equivalent courses in the global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Mathematics Courses

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.

- MATH-SHU 140 Linear Algebra
- MATH-SHU 143 Foundations of Mathematical Methods or MATH-SHU 201 Honors Calculus
- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics or MATH-SHU 233 Honors Theory of Probability
- MATH-SHU 262 Ordinary Differential Equations **or**
MATH-SHU 362 Honors Ordinary Differential Equations

Math Electives

Additionally to Calculus and the five required mathematics course, students are required to choose eight Math Electives. At least two must be from the category "Constrained Math Electives". Note that most elective courses require either the course MATH-SHU 143 Foundations of Mathematical Methods or the course MATH-SHU 201 Honors Calculus. Courses with a * can be used to complete the capstone projects in the senior year (see below).

Constrained Math Electives

- MATH-SHU 141 Honors Linear Algebra I
- MATH-SHU 142 Honors Linear Algebra II
- MATH-SHU 282 Functions of a Complex Variable
- MATH-SHU 328 Honors Analysis I
- MATH-SHU 329 Honors Analysis II*
- MATH-SHU 348 Honors Algebra I
- MATH-SHU 349 Honors Algebra II

- MATH-SHU 377 Differential Geometry*

Additional Mathematics Electives

This list is not exhaustive; other courses may be added if approved.

- CSCI-SHU 2314 Discrete Mathematics
- MATH-SHU 160 Networks and Dynamics
- MATH-SHU 226 Functional Analysis
- MATH-SHU 234 Mathematics of Statistics and Data Science I
- MATH-SHU 236 Mathematics of Statistics and Data Science II*
- 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 339 Real Variables*
- MATH-SHU 341 Number Theory
- MATH-SHU 345 Introduction to Stochastic Processes*
- MATH-SHU 375 Topology*
- MATH-SHU 997 Math Independent Study*

Capstone

In their senior year, each Mathematics student is additionally required to complete a capstone project, ending with a written report and an oral presentation. This special project can be completed as part of any of your senior courses if indicated in the above list by an *.

MATHEMATICS MINOR

Students wishing to minor in Mathematics are required to take four 4-credit mathematics courses at the Calculus level or higher.

MATHEMATICS

SAMPLE SCHEDULE 1

This is one example of how a student could organize their courses if pursuing a Mathematics major. All the required courses are taken in the first two years, which opens the doors to most mathematics electives. It is strongly advised to take Linear algebra in the first year as it is a prerequisite for most of the other Mathematics courses.

Year 1

Fall Semester

Global Perspectives on Society I	Calculus (Core Class)	Linear algebra	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Multivariate Calculus	Foundations of Mathematical Methods	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Probability and Statistics	Math or General elective	Chinese, Core or General Elective
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Spring Semester

Core Class	Ordinary Differential Equations	Math or General elective	Chinese, Core or General Elective
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Year 3

Fall Semester

Core class or General Elective	Math Elective	Math Elective	General Elective
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Spring Semester

Math or General Elective	Math Elective	Math Elective	General Elective
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Year 4

Fall Semester

General Elective	Math Elective*/ Math Elective	Math or General Elective	General Elective
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Spring Semester

General Elective	Math Elective*/ Math Elective	Math or General Elective	General Elective
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MATHEMATICS

SAMPLE SCHEDULE 2

This schedule is an example for students who want to explore topics in computer science in the course of their studies. These could be replaced for instance by courses in physics, chemistry, economics, or finance.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core/ General Elective	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Linear algebra	Core/ General Elective	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Probability and Statistics	Multivariate Calculus	Core, General Elective or Chinese
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Spring Semester

Core Class	Ordinary Differential Equations	Foundations of Mathematical Methods	Core, General Elective or Chinese
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Year 3

Fall Semester

Core Class or General Elective	Math Elective	Math Elective	Math or General Elective
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Spring Semester

Math or General Elective	Math Elective	Math Elective	General Elective
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Year 4

Fall Semester

General Elective	Math Elective	Math Elective	General Elective
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Spring Semester

General Elective	Math Elective	Math Elective	General Elective
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REQUIREMENTS FOR THE MAJOR

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.

Honors Mathematics students must take Honors Calculus or Honors Analysis I to satisfy the Mathematics requirement in the core curriculum. To fulfill the Core Curriculum Science requirement, Math/ Honors Math majors must choose two lecture courses plus one lab from the following list. Please note prerequisite courses for planning and course selection.

Lecture sections (choose two):

- Foundations of Biology I (BIOL-SHU 21), Foundations of Biology II (BIOL-SHU 21)
- General Physics (PHYS-SHU 11) or Foundations of Physics Honors (PHYS-SHU 91), General Physics II (PHYS-SHU 12 or Foundations of Physics II Honors (PHYS-SHU 93)
- Foundations of Chemistry I (CHEM-SHU 125), Foundations of Chemistry II (CHEM-SHU 126)

Lab sections (choose one):

- FoS Biology Laboratory (BIOL-SHU 123)
- FoS Physics Laboratory (PHYS-SHU 71), Physics II Lab (PHYS-SHU 94)
- FoS Chemistry Laboratory (CHEM-SHU 127)

Not every course listed is taught every semester, and in any given semester other courses may be offered as a replacement. Requirements may be met through equivalent courses in the global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Mathematics Courses

- | | |
|----------------|--|
| • MATH-SHU 141 | Honors Linear Algebra I |
| • MATH-SHU 142 | Honors Linear Algebra II |
| • MATH-SHU 233 | Honors Theory of Probability |
| • MATH-SHU 282 | Functions of a Complex Variable |
| • MATH-SHU 328 | Honors Analysis I |
| • MATH-SHU 329 | Honors Analysis II* |
| • MATH-SHU 348 | Honors Algebra I |
| • MATH-SHU 362 | Honors Ordinary Differential Equations |

Math Electives

Additionally to Honors Calculus and the eight required mathematics course, students are required to choose five Math Electives. It is strongly encouraged to take the required mathematics courses first. This list is not inclusive; other courses may be added if approved. Courses with a * can be used to complete the capstone projects in the senior year (see below).

- | | |
|----------------|--|
| • MATH-SHU 160 | Networks and Dynamics |
| • MATH-SHU 226 | Functional Analysis |
| • MATH-SHU 234 | Mathematics of Statistics and Data Science I |
| • MATH-SHU 236 | Mathematics of Statistics and Data Science II* |
| • 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 329 | Honors Analysis II* |
| • MATH-SHU 339 | Real Variables* |
| • MATH-SHU 341 | Number Theory |
| • MATH-SHU 345 | Introduction to Stochastic Processes* |

- MATH-SHU 349 Honors Algebra II
- MATH-SHU 375 Topology*
- MATH-SHU 377 Differential Geometry*
- MATH-SHU 997 Math Independent Study*

Capstone

In their senior year, each Mathematics student is additionally required to complete a capstone project, ending with a written report and an oral presentation. This special project can be completed as part of any of your senior courses if indicated in the above list by an *.

HONORS MATHEMATICS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing an Honors Mathematics major. Taking all required courses in the first two years allows access to most honors math electives.

Year 1

Fall Semester

Global Perspectives on Society	Honors Calculus (Core Class)	Honors Linear Algebra I	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Honors Analysis I	Honors Linear Algebra II	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Honors Analysis II	Honors Ordinary Differential Equations	Core, General Elective, or Chinese
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Spring Semester

Core Class	Functions of a Complex Variable	Honors Theory of Probability	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core Class	Math Elective	Math or General Elective	Core class or General Elective
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Spring Semester

Core Class	Math Elective	Math or General Elective	General Elective
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Year 4

Fall Semester

General Elective	Honors Algebra	Math or General Elective	General Elective
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Spring Semester

General Elective	Math Elective	Math or General Elective	General Elective
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HONORS MATHEMATICS

SAMPLE SCHEDULE 2

This is an alternative schedule for students who decide to enroll in the Honors Mathematics track at a later time.

Year 1

Fall Semester

Global Perspectives on Society	Calculus (Core Class)	English, Chinese, Core or General Elective	General Elective
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Spring Semester

Writing as Inquiry	Multivariable Calculus	English, Chinese, Core or General Elective	General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Honors Calculus	Honors Linear Algebra I	Honors Ordinary Differential Equations
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Spring Semester

Core, Chinese, or General Elective	Honors Analysis I	Honors Linear Algebra II	Honors Theory of Probability
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Year 3

Fall Semester

Core Class	Math Elective	Math Elective	Core class or General Elective
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Spring Semester

Core Class	Math Elective	Math Elective	General Elective
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Year 4

Fall Semester

Core, General Elective, or Chinese	Honors Analysis II	Honors Algebra I	General Elective
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Spring Semester

Core, General Elective, or Chinese	Functions of a Complex Variable	Math Elective	General Elective
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Neural Science

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 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.

REQUIREMENTS FOR THE MAJOR

Not every course listed below is taught in every semester. In any given semester, other courses may be offered that fulfill the requirement. 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. Students may not double major in Neural Science and Biology.

Foundational Courses

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory **OR**
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 11 General Physics I **OR**
- PHYS-SHU 91 Foundations of Physics I Honors
- PHYS-SHU 12 General Physics II **OR**
- (PHYS-SHU 93) Foundations of Physics II Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Lab

Note:

1. NS majors are encouraged to complete the above classes in their first 2 years.
2. NS majors are not required to take Foundations of Physics III Honors and may substitute General Physics I & II for Foundations of Physics I & II Honors.
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. 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.

Required Major Courses (All Six)

- NEUR-SHU 100 Math Tools for Life Math Tools for Life Sciences/Statistics for the Behavioral Sciences (Spring)
- NEUR-SHU 201 Introduction to Neural Science (Fall)
- NEUR-SHU 251 Behavioral and Integrative Neuroscience (Spring)
- NEUR-SHU 210 Cellular and Molecular Neuroscience (Fall)

One approved upper-level course in either Psychology or Biology:

Approved upper-level Psychology courses:

- NEUR-SHU 222 Perception
- NEUR-SHU 265 Neural Bases of Speech and Language

*The following courses will not be offered at NYU Shanghai but students may take one of them at New York to fulfill the requirement.

- PSYCH-UA 29 Cognition
- PSYCH-UA 44 Lab in Perception
- PSYCH-UA 46 Lab in Human Cognition
- PSYCH-UA 55 Psychology, Neuropsychology, and Medicine

- PSYCH-UA 300 From Illusions to Inference

Approved upper-level Biology courses:

- BIOL-SHU 30 Genetics
- BIOL-SHU 50 Immunology
- BIOL-SHU 263 Developmental Biology
- CHEM-SHU 881 Biochemistry I
- CHEM-SHU 882 Biochemistry II

*The following courses will not be offered at NYU Shanghai but students may take one of them at New York to fulfill the requirement.

- BIOL-UA 25 Principles of Animal Physiology
- BIOL-GA 1501 Mathematics in Medicine and Biology
- BIOL-GA 1502 Computers in Medicine and Biology

Major Capstone Course: NEUR-SHU 997/998 Independent Study in Neural Science (2-4 credits, can be repeated once): Open to senior neural science majors with permission of DUS.

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.

Major Electives (Choose Two)

- MATH-SHU 160 Networks and Dynamics (Spring)
- NEUR-SHU 10 Free Will and the Brain (Spring)
- NEUR-SHU 222 Perception (Spring, can count as an approved upper-level Psychology course)
- NEUR-SHU 261 Neurobiology of Decision Making (Spring)
- NEUR-SHU 265 Neural Bases of Speech and Language (Fall, can count as an approved upper-level Psychology course)
- NEUR-SHU 305 Special Topics in Neural Science: The Meaning of Natural Language (Fall)
- NEUR-SHU 270 Introduction to Theoretical Neuroscience (Fall)

*The following courses will not be offered at NYU Shanghai but students may take one of them at New York to fulfill the requirement.

- NEURL-UA 302 Special Topics in Neural Science
- NEURL-UA 305 Development and Dysfunction of the Nervous System

General Electives

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.

Recommended Computer Science General Electives:

- CSCI-SHU 101 Introduction to Computer Science
- CSCI-SHU 220 Algorithms
- CSCI-SHU 358 Theory of Computation
- CSCI-SHU 360 Machine Learning
- CSCI-SHU 372 Artificial Intelligence
- CSCI-SHU 402 Advanced Algorithms
- EENG-SHU 2054 Signals and Systems
- EENG-SHU 251 Circuits
- EENG-SHU 352 Control Systems

- EENG-SHU 375 Robotic Systems

Recommended Mathematics General Electives:

- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 140 Linear Algebra
- MATH-SHU 233 Theory of Probability
- MATH-SHU 235 Probability and Statistics
- MATH-SHU 263 Partial Differential Equations

Neural Science Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- NEUR-SHU 201 Introduction to Neural Science
- NEUR-SHU 251 Behavioral and Integrative Neuroscience **OR**
(NEUR-SHU 210) Cellular and Molecular Neuroscience

NEURAL SCIENCE

SAMPLE SCHEDULE 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.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	8 credits: General Physics I/ Foundations of Physics I Honors/, Foundations of Chemistry I, and FoS Physics Laboratory	2 credits: English or Chinese
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Spring Semester

Writing as Inquiry	Core Class or NS Elective	8 credits: Foundations of Biology I, Foundations of Chemistry II, and FoS Chemistry Laboratory	2 credits: English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Introduction to Neural Science	5 credits: Foundations of Biology II and FoS Biology Laboratory	NS elective, Core, Chinese, or General Elective
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Spring Semester

Behavioral and Integrative Neuroscience	Math Tools for Life Sciences	Core Class, NS elective, Chinese, English, or General Elective	5 credits: General Physics II/Foundations of Physics II Honors, and Physics II Lab
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Year 3

Fall Semester

Cellular and Molecular Neuroscience	NS Elective	General Elective	General Elective
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Spring Semester

Approved upper-level course in either Psychology or Biology	NS Elective	General Elective	General Elective
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Year 4

Fall Semester

General Elective	Major Capstone or General Elective	General Elective	General Elective
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Spring Semester

Major Capstone or General Elective	General Elective	General Elective	General Elective
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NEURAL SCIENCE

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese or General Elective
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Spring Semester

Writing as Inquiry	Core Class	3 credits: Foundations of Biology I	English, Chinese or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Intro to Neural Science	8 credits: Foundations of Chemistry I, Foundations of Biology II, and FoS Biology Laboratory	No class
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Spring Semester

Math Tools for Life Sciences	Behavioral and Integrative Neuroscience	5 credits: Foundations of Chemistry II and FoS Chemistry Laboratory	Chinese or General Elective
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Year 3

Fall Semester

Cellular and Molecular Neuroscience	NS Elective	General Elective	Chinese or General Elective
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Spring Semester

Approved upper-level course in either Psychology or Biology	NS Elective	General Elective	General Elective
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Year 4

Fall Semester

5 credits: General Physics I/Foundations of Physics I Honors and FoS Physics Laboratory	Major Capstone or General Elective	General Elective	General Elective
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Spring Semester

5 credits: General Physics II/Foundations of Physics II Honors and Physics II Lab	Major Capstone or General Elective	General Elective	General Elective
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PHYSICS

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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed below is taught in every semester. In any given semester, other courses may be offered that fulfill the requirement. Requirements may be met through taking equivalent courses in NYU's global network with the prior approval.

GPA minimum requirement

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, 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.

Foundational Courses

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 123 FoS Biology Laboratory
- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 128 Chemistry II Lab
- PHYS-SHU 91 Foundations of Physics I Honors **OR**
- PHYS-SHU 11 General Physics I (with a B+ or better grade)
- PHYS-SHU 93 Foundations of Physics II Honors
- PHYS-SHU 95 Foundations of Physics III Honors
- PHYS-SHU 96 Foundations of Physics IV Honors
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Laboratory

Note:

- 1) 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.
- 2) 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.
- 3) Physics majors are not required to take Foundations of Biology II.
- 4) Physics majors are required to take Linear Algebra and Differential Equations. They should not take Linear Algebra.

Required Courses

- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics
- MATH-SHU 265 Linear Algebra and Differential Equations
- PHYS-SHU 106 Mathematical Physics
- PHYS-SHU 251 Electricity and Magnetism
- PHYS-SHU 301 Quantum Mechanics

- PHYS-SHU 302 Statistical Mechanics and Thermodynamics
- PHYS-SHU 303 Advanced Physics Laboratory
- PHYS-SHU 998 Integrated Science Capstone (This course must be taken in the last semester before graduation)

Physics Electives - Choose Two

- PHYS-SHU 210 Computational Physics
- PHYS-SHU 252 Solid State Physics
- PHYS-SHU 255 Biophysics
- PHYS-SHU 314 Astrophysics
- PHYS-SHU 315 Nuclear and Particle Physics

Physics Minor

- PHYS-SHU 91 Foundations of Physics I Honors **OR**
- PHYS-SHU 11 General Physics I
- PHYS-SHU 93 Foundations of Physics II Honors **OR**
- PHYS-SHU 12 General Physics II
- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 94 Physics II Laboratory
- Two Physics Elective Courses (Must bring total credits of the minor courses to 16 or more)

PHYSICS

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Physics major. It assumes a student begins taking Physics major courses in the first semester of their first year. Sample Schedule 2 offers an alternate plan that involves beginning to pursue a Physics major in the spring semester of the first year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	8 credits: Foundations of Physics I Honors, Foundations of Chemistry I, and FoS Physics Laboratory	2 credits: English or Chinese
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Spring Semester

Writing as Inquiry	Multivariable Calculus	8 credits: Foundations of Physics II Honors, Physics II Lab and Foundations of Biology I	2 credits: English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Linear Algebra and Differential Equations	5 credits: Foundations of Physics III Honors and FoS Biology Laboratory	Probability and Statistics
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Spring Semester

8 credits: Foundations of Physics IV Honors, Foundations of Chemistry II, and FoS Chemistry Laboratory	Mathematical Physics	Core or General Elective	English or Chinese
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Year 3

Fall Semester

Electricity and Magnetism	Quantum Mechanics	Physics Elective	Chinese or General Elective
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Spring Semester

Statistical Mechanics and Thermodynamics	Physics Elective	General Elective	Chinese or General Elective
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Year 4

Fall Semester

Advanced Physics Lab	General Elective	General Elective	Chinese or General Elective
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Spring Semester

Integrated Science Capstone	General Elective	General Elective	Chinese or General Elective
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PHYSICS

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese, or General Elective
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Spring Semester

Writing as Inquiry	Core Class	Multivariable Calculus	English, Chinese, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	8 credits: Foundations of Physics I Honors, Foundations of Chemistry I, and FoS Physics Laboratory	Linear Algebra and Differential Equations	No Class
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Spring Semester

Probability and Statistics	8 credits: Foundations of Physics II Honors, Physics II Lab, Foundations of Biology I	General Elective	No Class
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Year 3

Fall Semester

5 credits: Foundations of Physics III Honors and FoS Biology Laboratory	Chinese or General Elective	General Elective	General Elective
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Spring Semester

Mathematical Physics	8 credits: Foundations of Physics IV Honors, Foundations of Chemistry II, FoS Chemistry Laboratory	Chinese or General Elective	No Class
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Year 4

Fall Semester

Physics Elective	Electricity and Magnetism	Quantum Mechanics	General Elective
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Spring Semester

Statistical Mechanics and Thermodynamics	Advanced Physics Lab	Physics Elective	Integrated Science Capstone
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Social scientists study human interactions among individuals, families, communities, and nations. Using a range of analytical, interpretive, and experimental tools from anthropology, economics, sociology, political science, and psychology, 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, 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 disciplinary area or a synthetic combination of fields 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 on classic forms of social science analysis and new frontiers in social science research. Social Science majors select two foundational courses in the social science disciplines, and three focus courses chosen in consultation with their faculty mentor to deepen their engagement with a social science discipline (for example, anthropology or political science)* or an interdisciplinary topic of interest (for example, environmental studies, political economy, or global health). China—its peoples and politics—is an important focus for teaching and learning in the major, but the major is purposefully heterogeneous in the geographical, methodological, and analytical scope of its course offerings. Social Science majors complete an independent research project as part of a one-semester senior year capstone project.

*NYU Shanghai students interested in a disciplinary focus in Economics are advised to pursue the Economics major instead of the Social Science major.

REQUIREMENTS FOR THE MAJOR

Note: While Calculus is not a requirement in the Social Science major, some Foundational/Methods/Focus courses (but not all) do require Calculus as a prerequisite. Thus, students are encouraged to consider what courses they would like to take for the Social Science major and whether Calculus is a prerequisite.

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill these requirements. Requirements may be met through equivalent courses in NYU's global network with prior approval.

Foundational Courses (100-200 level) - Two Courses

These courses provide an introduction to the foundational knowledge and building blocks of analytic methods in a range of social sciences. Typical coursework: A mix of lectures, discussion, assignments, shorter essays, quizzes, and/or exams.

Sample Courses

- SOCS-SHU 135 Environment and Society
- SOCS-SHU 136 Human Society and Culture
- SOCS-SHU 150 Introduction to Comparative Politics
- SOCS-SHU 160 Introduction to International Politics
- SOCS-SHU 170 Introduction to Global Health
- SOCS-SHU 133 Urbanization in China
- PSYC-SHU 101 Introduction to Psychology
- ECON-SHU 1 Principles of Macroeconomics
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 3 Microeconomics
- ECON-SHU 251 Economics of Global Business

Methods Courses (100-300 level) - Two Courses

These courses equip students with tools to both critically consume and create advanced social scientific research. Methods courses include introductory courses and more advanced courses which may have one or more prerequisites. Additional methods courses are available at the study away sites, NYU New York, and NYU Abu Dhabi.

Sample Courses

- SOCS-SHU 141 Methods of Social Research
- SOCS-SHU 210 Statistics for the Behavioral and Social Sciences
- SOCS-SHU 248 Fraud
- SOCS-SHU 318 Ethnographic Methods
- SOCS-SHU 350 Empirical Research Practice
- BUSF-SHU 101 Statistics for Business and Economics
- ECON-SHU 213 Causal Inference in the Social Sciences
- ECON-SHU 216 Introduction to Game Theory
- ECON-SHU 301 Econometrics
- MATH-SHU 235 Probability and Statistics

Core Courses (200-300 level) (Prereq: GPS) - Two Courses

The core social science courses are interdisciplinary courses that create unexpected connections between the social science disciplines. Classic Problems courses introduce the history and philosophy of the social scientific approach. New Challenges courses introduce new approaches to current challenges in social science research. Students must take one course from each of the two core categories. Social Science core courses are not widely available at the study away sites, NYU New York, or NYU Abu Dhabi; students should plan to take them in Shanghai.

Classic Problems in Social Science

Sample Courses

- SOCS-SHU 229 Capitalism, Socialism, Communism
- SOCS-SHU 245 Ethnographic Thinking
- OCS-SHU 253 Nature in Social Thought

New Challenges in Social Science

Sample Courses

- SOCS-SHU 234 Image as Evidence
- SOCS-SHU 270 Social Change in Contemporary China
- SOCS-SHU 334 Legal Psychology

Note: Students who complete two Social Science core courses may use additional core courses to complete the focus requirement if appropriate for their approved choice of focus.

Focus Courses (200-400 level, Two must be 300 or 400 level) - Three Courses

Students select a disciplinary or interdisciplinary track in which to focus within the social science major.

Disciplinary tracks include

- Anthropology,
- Psychology,
- Political Science, and
- Sociology.

Interdisciplinary tracks include

- Environmental Studies,
- Global Health,
- International Relations, and
- Political Economy.

Students may also petition to self-design a different interdisciplinary track with prior approval from the Area Head.

Students who wish to focus in Economics are advised to pursue the Economics major instead.

Students must complete 3 courses in one track, at least 2 of which must be at the advanced level (300 or 400 level). Your academic advisor can help you determine which courses count for each track, and at which level, if it is not clear from the course code. Tracks are noted on student transcripts; for students who self-design a track, "Self-Designed" will appear as the track of record on their transcripts. Additional focus courses are widely available at the study away sites, NYU New York, and NYU Abu Dhabi.

Sample Courses

Anthropology

- SOCS-SHU 241 Cultures of Business and Work
- SOCS-SHU 39 Visual Anthropology

Political Science

- CCSF-SHU 123 Contemporary Chinese Political Thought
- GCHN-SHU 241 Chinese Revolutions
- SOCS-SHU 220 Law and Society in the U.S.
- SOCS-SHU 251 Law, Culture, and Politics in China
- SOCS-SHU 272 The U.S. Constitution: Is It Relevant to China?
- SOCS-SHU 339 Comparative Revolutions
- SOCS-SHU 340 Comparative Constitutions

Psychology

- PSYC-SHU 201 Social Psychology
- PSYC-SHU 234 Developmental Psychology
- PSYC-SHU 329 Parenting and Culture
- PSYC-SHU 349 Cultures of Psychology

• PSYC-SHU 352	Psychology of Human Sexuality
Sociology	
• MCC-SHU 9451	Global Media Seminar: China
• SOCS-SHU 360	Urban Sociology
Environmental Studies	
• GCHN-SHU 243	Chinese Environmental Studies
• SOCS-SHU 230	Science in Environmental Policy
• SOCS-SHU 333	Global Environmental Politics
Global Health	
• SOCS-SHU 306	Pestilence: Critical Perspectives in Global Health
• SOCS-SHU 445	Topics in Society, Health, and Medicine
International Relations	
• SOCS-SHU 232	International Law and Institutions
• SOCS-SHU 275	U.S. China Relations
• SOCS-SHU 341	Cross-Strait Relations
Political Economy	
• BPEP-SHU 9042 (GCHN-SHU 342)	Political Economy of East Asia
• ECON-SHU 10	Intermediate Microeconomics
• ECON-SHU 200	Topics: Economics of Gender
• ECON-SHU 202	Intermediate Macroeconomics
• ECON-SHU 215	Economic History
• ECON-SHU 238	History of Modern Economic Growth: Exploring China From a Comparative Perspective
• ECON-SHU 260	International Trade
• LWSO-SHU 491	International Investment Transactions in Developing Countries

Capstone Course - One Course

Students complete a capstone seminar course during one semester of their senior year. As part of the capstone seminar students conduct an independent research project in their track using the methods, theories, and data with which they have become familiar over the course of completing the major. The capstone seminar must be completed in Shanghai.

Social Science Minor

Students who wish to complete a minor in Social Science must complete one of the Methods courses from the list of approved Social Science Methods courses and three additional courses from the list of approved Social Science Foundational, Methods or Focus courses.

Social Science

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a Social Science major. It assumes a student begins taking Social Science major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Course	Core Course	English or Chinese
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Spring Semester

Writing as Inquiry	Foundational Course	Core Course	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Foundational Course	Social Science Core	Core class or Chinese
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Spring Semester

Core class, or Chinese	Core Course	Social Science Core	Methods Course
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Year 3

Fall Semester

Core Course	Focus Course	General Elective	General Elective
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Spring Semester

Focus Course	General Elective	Core or General Elective	General Elective
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Year 4

Fall Semester

Methods Course	Focus Course	General Elective	General Elective
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Spring Semester

Capstone Course	Core Course	General Elective	General Elective
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Social Science

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Course	Core Course	English or Chinese
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Spring Semester

Writing as Inquiry	Core Course	Core Course	English or Chinese
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Year 2

Fall Semester

Perspectives on the Humanities	Foundational Course	Social Science Core	Core class or Chinese
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Spring Semester

Core class, or Chinese	Core Course	Social Science Core	General Elective
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Year 3

Fall Semester

Foundational Course	Focus Course	Core or General Elective	General Elective
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Spring Semester

Methods Course	Focus Course	Core or General Elective	General Elective
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Year 4

Fall Semester

Focus Course	Methods Course	General Elective	General Elective
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Spring Semester

Capstone Course	Core Course	General Elective	General Elective
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BUSINESS

BUSINESS AND FINANCE

BUSINESS AND MARKETING

BUSINESS AND FINANCE

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:

- a) a deeper understanding of the modern global business environment and its economic structure;
- b) disciplinary skills in economics and statistics;
- c) a focused introduction to accounting, 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.

REQUIREMENTS FOR THE MAJOR

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a 4-credit requirement but note that a 2-credit course with a similar title or content will not by itself meet the requirement of the named course. All students in their senior year are required to take at least one business course which requires a paper and/or a project.

Business Core

- 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
- ECON-SHU 251 Economics of Global Business

Finance Core

- BUSF-SHU 303 Corporate Finance

Business Electives - Choose Two

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 351 Operations Management
- MGMT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing

Finance Electives - Choose Two

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.

- BUSF-SHU 304 Futures and Options
- BUSF-SHU 305 Debt Instruments and Markets
- BUSF-SHU 286 Chinese Financial Markets
- BUSF-SHU 321 Equity Valuation
- BUSF-SHU 229 Behavioral Finance
- BUSF-SHU 244 Portfolio Management

Non-Finance Electives - Choose Two from the Following Areas

- Accounting
- Business Analytics*
- Management
- Marketing**
- Operations
- Information System

China Business Studies - Choose One***

- BUSF-SHU 288 Doing Business with China
- BUSF-SHU 286 Chinese Financial Markets
- BUSF-SHU 200D Business Consulting in China
- MKTG-SHU 288 Strategic Marketing in China

* 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.

** Business and Finance majors may complete a "Marketing track" within the major by taking Introduction to Marketing as one of the Business Electives and choosing two Marketing Elective

courses in fulfilling their two “Non-Finance Elective” requirements.

*** 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.

Business Minor

Required Courses

- BUSF-SHU 101 Statistics for Business and Economics
- BUSF-SHU 250 Principles of Financial Accounting
- ECON-SHU 3 Microeconomics
- ECON-SHU 251 Economics of Global Business (Students can take Introduction to Macroeconomics and Intermediate Macroeconomics to substitute EGB)
- MATH-SHU 121 or 131 Calculus

Choose One Elective Course

Please note that the business minor elective list below is complete, no courses outside of the list will be approved.

- BUSF-SHU 142 Information Technology in Business and 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

Economics majors must complete two of the additional courses listed below to complete the minor within the double counting limits.

- BUSF-SHU 142 Information Technology in Business and 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

BUSINESS AND FINANCE

SAMPLE SCHEDULE

This is just one example of how a student could organize their courses if pursuing a B&F major. It assumes a student begins taking B&F major courses in the first year. Students may propose alternative course sequences to their advisors as well.

Students interested in majoring in Business are recommended to take Calculus 131 in their first semester so that they can complete the Microeconomics, Foundations of Finance, Corporate Finance sequence before studying away and have flexibility in taking upper level electives.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Microeconomics*	Statistics for Business and Economics	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Principles of Financial Accounting	Foundations of Finance	Core, General Elective, or Chinese
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Spring Semester

Core Class	Economics of Global Business	Corporate Finance	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core Class or General Elective	Business Core Elective	Finance Elective or Non-Finance Elective	Core Class or General Elective
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Spring Semester

Core Class or General Elective	Business Core Elective	Finance Elective or Non-Finance Elective	General Elective
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Year 4

Fall Semester

Non-Finance Elective or Finance Elective or China Business Studies	Finance Elective or Non-Finance Elective	General Elective	General Elective
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Spring Semester

Non-Finance Elective or Finance Elective or China Business Studies	General Elective	General Elective	General Elective
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Important Notes:

*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 AND MARKETING

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:

- a) a deeper understanding of the modern global business environment and its economic structure;
- b) disciplinary skills in economics and statistics;
- c) a focused introduction to accounting, 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.

REQUIREMENTS FOR THE MAJOR

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a 4-credit requirement but note that a 2-credit course with a similar title or content will not by itself meet the requirement of the named course. All students in their senior year are required to take at least one business course that fulfills the senior thesis requirement.

Business Core

- 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
- ECON-SHU 251 Economics of Global Business

Marketing Core

- MKTG-SHU 1 Introduction to Marketing

Business Electives - Choose Two

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 303 Corporate Finance
- BUSF-SHU 351 Operations Management
- MGMT-SHU 301 Management and Organizations

Marketing Electives - Choose Two

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.

NOTE: For Class of 2020 and beyond, either MKTG-SHU 9 or MKTG-SHU 2 below must be chosen as one of the two Marketing electives.

- MKTG-SHU 2 Consumer Behavior
- MKTG-SHU 9 Research for Customer Insights
- MKTG-SHU 3 Advertising Management
- MKTG-SHU 57 Digital Marketing
- MKTG-SHU 288 Strategic Marketing in China

Non-Marketing Electives - Choose Two from the Following Areas*

- Accounting
- Business Analytics*
- Management
- Finance**
- Operations
- Information System

China Business Studies - Choose One ***

- BUSF-SHU 288 Doing Business within China
- BUSF-SHU 286 Chinese Financial Markets
- BUSF-SHU 200D Business Consulting in China
- MKTG-SHU 288 Strategic Marketing in China

* 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.

** 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.

*** 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.

BUSINESS AND MARKETING

SAMPLE SCHEDULE

This is just one example of how a student could organize their courses if pursuing a B&M major. It assumes a student begins taking B&M major courses in the first year. Students may propose alternative course sequences to their advisors as well.

Students interested in majoring in Business are recommended to take Calculus 131 in their first semester so that they can complete the Microeconomics, Foundations of Finance, Corporate Finance sequence before studying away and have flexibility in taking upper level electives.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core class	English, Chinese, Core or General Elective
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Spring Semester

Writing as Inquiry	Microeconomics*	Statistics for Business and Economics	English, Chinese, Core or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Principles of Financial Accounting	Foundations of Finance or Introduction to Marketing	Core, General Elective, or Chinese
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Spring Semester

Core or General Elective	Economics of Global Business	Foundations of Finance or Introduction to Marketing	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core or General Elective	Business Core Elective	Marketing Elective or Non-Marketing Elective	Core Class or General Elective
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Spring Semester

Marketing Elective or Non-Marketing Elective	Business Core Elective	General Elective	General Elective
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Year 4

Fall Semester

Non-Marketing Elective or Marketing Elective or China Business Studies	General Elective	Non-Marketing Elective or Marketing Elective	General Elective
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Spring Semester

Non-Marketing Elective or Marketing Elective or China Business Studies	General Elective	General Elective	General Elective
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Important Notes:

*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.

COMPUTER SCIENCE AND ENGINEERING

COMPUTER SCIENCE

COMPUTER SYSTEMS ENGINEERING

DATA SCIENCE

ELECTRICAL AND SYSTEMS ENGINEERING

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, 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 information technology products of the future at large and dynamic companies such as Google, Microsoft, Amazon, Apple or within exciting high-tech startups throughout the world. Entrepreneurship skills combined with computer science prowess can help in creating your own high-tech startup, pursuing careers in business or finance that leverage computer science expertise, or going on to do cutting-edge research in a PhD program. Household names such as Bill Gates, Mark Zuckerberg, Larry Page, Melisa Myers, Robin Li, and Kai-Fu Lee all began in computer science.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Major Course

- CSCI-SHU 101 Introduction to Computer Science
(prereq: Placement test or CSCI-SHU 11 Intro to Computer Programming)
- MATH-SHU 235 Probability and Statistics **OR**
MATH-SHU 233 Theory of Probability **OR**
BUSF-SHU 101 Statistics for Business and Economics
- CENG-SHU 202 Computer Architecture
(prereq: CSCI-SHU 11 Intro to Programming or CSCI-SHU 101 Intro to Computer Science) **OR**
CSCI-UA 201 Computer Systems Organization
- CSCI-SHU 210 Data Structures
(prereq: CSCI-SHU 101 Intro to Computer Science, A- or above in CSCI-SHU 11 Intro to Computer Programming)
- CSCI-SHU 215 Operating Systems
(prereq: CSCI-SHU 210 Data Structures; CENG-SHU 202 Computer Architecture or Computer Systems Organization)
- CSCI-SHU 220 Algorithms
(prereq: CSCI-SHU 210 Data Structures and CSCI-SHU 2314 Discrete Math or MATH-SHU 140 Linear Algebra or MATH-SHU 141 Honors Linear Algebra)
- CSCI-SHU 2314 Discrete Mathematics
(co-requisite or prereq: MATH-SHU 121 Calculus)
- CSCI-SHU 420 Senior Project

Computer Science Electives - Choose Four

The courses listed below are not an exhaustive list. In particular, most of the CS elective courses at Tandon, College of Arts and Sciences, or Abu Dhabi can be used as NYU Shanghai CS electives. If you would like to see if a course not listed below can count as an elective, please contact your advisor to have the course reviewed.

- CENG-SHU 201 Digital Logic
- CENG-SHU 350 Embedded Computer Systems
- CENG-SHU 304 Computer Security
- CSCI-SHU 222 Introduction to Game Programming
- CSCI-SHU 235 Information Visualization
- CSCI-SHU 304 Network Security
- CSCI-SHU 308 Computer Networking
- CSCI-SHU 310 UNIX System Programming
- CSCI-SHU 213 Introduction to Databases
- CSCI-SHU 360 Machine Learning
- CSCI-SHU 410 Software Engineering
- INTM-SHU 231 Developing Web
- CSCI-SHU 188 Computer Music
- CSCI-SHU 240 Introduction to Optimization and Mathematical Programming
- CSCI-SHU 378 Introduction to Cryptography
- CSCI-SHU 375 Reinforcement Learning

Computer Science Minor

- CENG-SHU 202 Computer Architecture
- CSCI-SHU 101 Introduction to Computer Science
(prereq: CSCI-SHU 11 Introduction to Computer Programming or placement exam)
- CSCI-SHU 210 Data Structures
- One computer science elective course

COMPUTER SCIENCE

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a CS major. It assumes a student begins taking CS major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester			
Global Perspectives on Society	Core Class (Calculus)	Core Class (Intro to Programming/Computer Science)	English, Chinese, Core, or General Elective
Spring Semester			
Writing as Inquiry	Core Class	Introduction to Computer Science or Data Structures	English, Chinese, Core, or General Elective

Year 2

Fall Semester			
Perspectives on the Humanities	Data Structures or Computer Science Elective	Discrete Mathematics	Core, General Elective, or Chinese
Spring Semester			
Core Class	Computer Science Elective	Computer Architecture	Core, General Elective, or Chinese

Year 3

Fall Semester			
Core or General Elective	Computer Science Elective	Algorithms	General Elective
Spring Semester			
Core or General Elective	Computer Science Elective	Probability and Statistics or alternate statistics course	General Elective

Year 4

Fall Semester			
Operating Systems	Computer Science Elective or General Elective	General Elective	General Elective
Spring Semester			
Senior Project	General Elective	General Elective	General Elective

COMPUTER SCIENCE

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core class	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Core class	Core or General Elective	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Core Class (Intro to Programming/Computer Science)	Discrete Mathematics	Core, General Elective, or Chinese
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Spring Semester

Computer Science Elective	Introduction to Computer Science or Data Structures	Computer Architecture	Core, General Elective, or Chinese
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Year 3

Fall Semester

Computer Science Elective	Data Structures or Computer Science Elective	Probability and Statistics or alternate statistics course	General Elective
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Spring Semester

Algorithms	Computer Science Elective	General Elective	General Elective
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Year 4

Fall Semester

Core class	Computer Science Elective or General Elective	Operating Systems	General Elective
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Spring Semester

Computer Science Elective	Senior Project	General Elective	General Elective
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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.

The Computer 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 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 across the curriculum to develop an understanding of cultural, political, economic, environmental, and public safety considerations. In their courses, Computer Systems Engineering students are involved in the design process and the progression of technological inventions from concept through product development and market introduction.

REQUIREMENTS FOR THE MAJOR

Note: To fulfill the Core Curriculum Science requirement, students must take: 1) PHYS-SHU 91 Foundations of Physics I Honors or PHYS-SHU 11 General Physics I; 2) PHYS-SHU 93 Foundations of Physics II Honors or PHYS-SHU 12 General Physics II ; and 3) PHYS-SHU 94 Physics II Lab.

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Required Major Courses

- CENG-SHU 201 Digital Logic
- CENG-SHU 202 Computer Architecture
- CENG-SHU 350 Embedded Computer Systems
- CSCI-SHU 101 Introduction to Computer Science
- CSCI-SHU 210 Data Structures
- EENG-SHU 251 Circuits
- EENG-SHU 400 Senior Capstone Design Project (4-credit project taken in the spring semester of senior year)
- MATH-SHU 123 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics *OR*
- MATH-SHU 233 Theory of Probability
- MATH-SHU 265 Linear Algebra and Differential Equations *OR*
- MATH-SHU 140 Linear Algebra *OR*
- MATH-SHU 160 Networks and Dynamics

Electives - Choose Two

The courses listed below are not an exhaustive list. If you would like to see if a course not listed below can count as an elective, please contact your advisor to have the course reviewed.

- CSCI-SHU 215 Operating Systems
- CENG-SHU 302 Compilers
- CENG-SHU 303 Parallel and Distributed Computing
- CENG-SHU 304 Computer Security
- CSCI-SHU 304 Network Security
- CSCI-SHU 308 Computer Networking
- CSCI-SHU 310 UNIX System Programming
- CSCI-SHU 340 Introduction to Databases
- EENG-SHU 3193 Very Large Scale Integration Circuit Design
- EENG-SHU 322 Electronics
- EENG-SHU 375 Robotic Systems

Note: Rapid Prototyping or a similar IMA course is highly recommended as a general elective.

Computer Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CENG-SHU 202 Computer Architecture *OR*
- CENG-SHU 350 Embedded Computer Systems
- CSCI-SHU 11 Introduction to Programming *OR*
- INTM-SHU 101 Interaction Lab
- CSCI-SHU 101 Introduction to Computer Science
- EENG-SHU 251 Circuits

COMPUTER SYSTEMS ENGINEERING

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a CSE major. It assumes a student begins taking CSE major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Intro to Programming/ Computer Science	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Introduction to Computer Science	Multivariable Calculus	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Digital Logic	Physics I	Core, General Elective, or Chinese
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Spring Semester

Intro to Computer Science or Data Structures	Circuits	Physics II & Lab	Core, General Elective, or Chinese
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Year 3

Fall Semester

Data Structures or Core Class	Computer Architecture	Probability and Statistics or Theory of Probability	Computer Systems Engineering Elective
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Spring Semester

Computer Systems Engineering Elective	Linear Algebra and Differential Equations or alternative course	Embedded Computer Systems	General Elective
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Year 4

Fall Semester

General Elective	Core or General Elective	Core or General Elective	General Elective
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Spring Semester

Core or General Elective	Senior Capstone	General Elective	General Elective
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COMPUTER SYSTEMS ENGINEERING

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Physics I	English, Chinese, Core, or General elective
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Spring Semester

Writing as Inquiry	Core or General Elective	Physics II & Lab	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Intro to Programming/ Computer Science	Multivariable Calculus	Core class
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Spring Semester

Circuits	Introduction to Computer Science	Probability and Statistics or Theory of Probability	Core or General Elective
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Year 3

Fall Semester

Embedded Computer Systems	Intro to Computer Science or Data Structures	Linear Algebra and Differential Equations or alternative course	Computer Systems Engineering Elective
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Spring Semester

Digital Logic	Data Structures or Core class	Computer Systems Engineering Elective	General Elective
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Year 4

Fall Semester

General Elective	Core class	General Elective	General Elective or Chinese
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Spring Semester

Senior Design	Computer Architecture	General Elective	General Elective or Chinese
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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.

REQUIREMENTS FOR THE MAJOR

Note: Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in the global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

Foundational Courses

- CSCI-SHU 101 Introduction to Computer Science
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability

Required Major Courses

Programming & Computer Science

- CSCI-SHU 210 Data Structures

Mathematics

- MATH-SHU 123 Multivariable Calculus
- MATH-SHU 140 Linear Algebra **OR**
- MATH-SHU 265 Linear Algebra and Differential Equations **OR**
- MATH-SHU 141 Honors Linear Algebra I

Data Analysis

- CSCI-SHU 360 Machine Learning
- ECON-SHU 301 Econometrics **OR**
- MATH-SHU 234 The Mathematics of Statistics and Data Science Part 1
- CSCI-SHU235 Information Visualization **OR**
- CSCI-SHU 220 Algorithms **OR**
- CSCI-SHU 240 Introduction to Optimization and Mathematical Programming

Data Management

- CSCI-SHU 213 Databases

Concentration Courses

- Domain-area courses
- DATS-SHU 400 Data Science Capstone

Note: Students who are strong in mathematics are encouraged to take Analysis I and Analysis II (in place of Multivariable Calculus), Honors Linear Algebra I (in place of Linear Algebra), and Theory of Probability.

Concentration Options

Domain-Area Courses for Concentration in Finance

- DATS-SHU 400 Data Science Capstone (Not Required for students who are enrolled in 6-credit Business and Econ Honors Program)
 - ECON-SHU 3 Microeconomics
 - BUSF-SHU 250 Principles of Financial Accounting
 - BUSF-SHU 202 Foundations of Finance
 - BUSF-SHU 303 Corporate Finance
- 14 courses total

Domain-Area Courses for Concentration in Marketing

- DATS-SHU 400 Data Science Capstone (Not Required for students who are enrolled in 6-credit Business and Econ Honors Program)
 - ECON-SHU 3 Microeconomics
 - BUSF-SHU 250 Principles of Financial Accounting
 - BUSF-SHU 202 Foundations of Finance
 - MKTG-SHU 1 Introduction to Marketing
- 14 courses total

Domain-Area Courses for Concentration in Economics

- DATS-SHU 400 Data Science Capstone (Not Required for students who are enrolled in 6-credit Business and Econ Honors Program)
 - ECON-SHU 3 Microeconomics
 - ECON-SHU 1 Macroeconomics
- 12 courses total.

Domain-Area Courses for Concentration in Genomics

- DATS-SHU 400 Data Science Capstone
 - BIOL-SHU 21 Foundations of Biology 1 and lab
 - BIOL-SHU 22 Foundations of Biology 2 and lab
 - BIOL-SHU 261 Bioinformatics
- Foundations of Biology 1 can count as core curriculum course.
– 12 courses total.

Domain-Area Courses for Concentration in Computer Science

- DATS-SHU 400 Data Science Capstone
- Two courses from:
- CENG-SHU 202 Computer Architecture **OR**
 - CSCI-UA 201 Computer Systems Organization
 - CSCI-SHU 215 Operating Systems
 - CSCI-SHU 2314 Discrete Mathematics
 - CS-UY 2413/CSCI-UA 310/CSCI-SHU 220 Algorithms
- 12 courses total.

Domain-Area Courses for Concentration in Mathematics

- DATS-SHU 400 Data Science Capstone
- Two courses from:
- MATH-SHU 201 Honors Calculus
 - MATH-SHU 329 Honors Analysis II
 - MATH-SHU 233 Theory of Probability
 - MATH-SHU 234 The Mathematics of Statistics and Data Science, Part 1--Part 2
 - MATH-SHU 142 Honors Linear Algebra 2
- 12 courses total.

Domain-Area Courses for Concentration in Artificial Intelligence

- DATS-SHU 400 Data Science Capstone
- Two courses from:
- CSCI-UA 480 Natural Language Processing
 - CSCI-SHU 372/CS-UY 4613 Artificial Intelligence
 - CSCI-GA 2566 Foundations of Machine Learning
 - DS-GA 1008/CSCI-GA 2572 Deep Learning
 - DS-GA 1012 Natural Language Understanding and Computational Semantics
 - DS-GA 1013 Mathematical Tools for Data Science
 - CSCI-SHU 240 Introduction to Optimization and Mathematical Programming
 - CSCI-SHU 235 Information Visualization
 - CS-UY 2413/CSCI-UA 310/CSCI-SHU 220 Algorithms
 - CSCI-SHU 375 Reinforcement Learning
- 12 courses total.

Domain-Area Courses for Concentration in Political Science

- DATS-SHU 400 Data Science Capstone
 - SOCS-SHU 150 Introduction to Comparative Politics
 - SOCS-SHU 160 Introduction to International Politics
- 12 courses total.

Domain-Area Courses for Concentration in Psychology

- DATS-SHU 400 Data Science Capstone

Two Required Courses:

- SOCS-SHU 350 Empirical Research Practice
- SOCS-SHU 101 Introduction to Psychology

One course from:

- PSYC-SHU 234 Developmental Psychology
- PSYCH-UA 25 Cognitive Neuroscience
- PSYCH-UA 32 Social Psychology
- PSYCH-UA 30 Personality
- PSYCH-SHU 352 Psychology of Human Sexuality* **OR**
- PSYCH-UA 300 Human Sexuality
- SOCS-SHU 334 Legal Psychology

– 13 courses total.

Data Science Minor

- CSCI-SHU 101 Introduction to Computer Science
(prereq: CSCI-SHU 11 Intro to Programming or placement exam)
- CSCI-SHU 210 Data Structures
- CSCI-SHU 360 Machine Learning
- ECON-SHU 301 Econometrics **OR**
- MATH-SHU 234 The Mathematics of Statistics and Data Science
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability

DATA SCIENCE

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a DS major. It assumes a student begins taking DS major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core Class (Intro to Programming/Computer Science)	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Probability and Statistics or alternate courses	Intro to Computer Science or Data Structures	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Data Structures or Domain-area class	Multivariable Calculus	Core, General Elective, or Chinese
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Spring Semester

Linear Algebra	Machine Learning	Econometrics or The Mathematics of Statistics and Data Science	Core, General Elective, or Chinese
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Year 3

Fall Semester

Core or General Elective	Databases	Domain-area Class	General Elective
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Spring Semester

Core or General Elective	Core Class	Domain-area Class or General Elective	General Elective
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Year 4

Fall Semester

Information Visualization	General Elective	General Elective	General Elective
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Spring Semester

Senior Project	General Elective	General Elective	General Elective
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DATA SCIENCE

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Core class	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Core class	Core or General Elective	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Core Class (Intro to Programming/Computer Science)	Multivariable Calculus	Core, General Elective, or Chinese
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Spring Semester

Linear Algebra	Intro to Computer Science or Data Structures	Probability and Statistics or alternate courses,	Core, General Elective, or Chinese
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Year 3

Fall Semester

Econometrics OR The Mathematics of Statistics and Data Science	Data Structures or Domain-area Class	Databases	General Elective
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Spring Semester

Core class	Machine Learning	Domain-area class	General Elective
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Year 4

Fall Semester

Information Visualization	General Elective	Domain-area class or General Elective	General Elective
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Spring Semester

Senior Project	General Elective	General Elective	General Elective
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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.

ELECTRICAL AND SYSTEMS ENGINEERING

REQUIREMENTS FOR THE MAJOR

Note: To fulfill the Core Curriculum Science requirement, students must take: 1) PHYS-SHU 91 Foundations of Physics I Honors or PHYS-SHU 11 General Physics I; 2) PHYS-SHU 93 Foundations of Physics II Honors or PHYS-SHU 12 General Physics II; and 3) PHYS-SHU 94 Physics II Lab

Not every course listed is taught every semester, and in any given semester other courses may be offered that fulfill this requirement. Requirements may be met through equivalent courses in NYU's global network with prior approval. 3-credit versions of courses can generally substitute for a full 4-credit course requirement. A 2-credit course with a similar title or content will not by itself meet the requirement of the named course.

GPA minimum requirement

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.

Required Courses

- CENG-SHU 201 Digital Logic
- CSCI-SHU 11 Introduction to Programming *OR*
- CSCI-SHU 101 Introduction to Computer Science
- EENG-SHU 2054 Signals and Systems
- EENG-SHU 251 Circuits
- EENG-SHU 304 Electromagnetic Fields and Waves
- EENG-SHU 322 Electronics
- EENG-SHU 400 Senior Capstone Design Project (4-credit project taken in the spring semester of senior year)
- MATH-SHU 123 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics *OR*
- MATH-SHU 233 Theory of Probability
- MATH-SHU 265 Linear Algebra and Differential Equations *OR*
- MATH-SHU 140 Linear Algebra *OR*
- MATH-SHU 160 Networks and Dynamics

Electives

Choose 2 from these 4 courses:

- EENG-SHU 356 Communication Systems
- EENG-SHU 364 Feedback Control
- EE-UY 112/EE-UY 3124 Fundamentals of Electronics II (offered in New York)
- EE-UY 3824 Electric Energy Conversion Systems (offered in New York)

Choose 2 more from the following list:

- CENG-SHU 350 Embedded Computer Systems
- CENG-SHU 351 Computer Networks
- EENG-SHU 306 Instrumentation, Sensors and Actuators
- EENG-SHU 3193 Very Large Scale Integrated (VLSI) Circuit Design
- EENG-SHU 355 Digital Signal Processing
- EENG-SHU 356 Communication Systems
- EENG-SHU 375 Robotic Systems

Note: Rapid Prototyping or a similar IMA course is highly recommended as a general elective.

Electrical and Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CSCI-SHU 11 Introduction to Programming *OR*
- INTM-SHU 101 Interaction Lab
- EENG-SHU 251 Circuits
- Electrical and Systems Engineering Elective

ELECTRICAL AND SYSTEMS ENGINEERING

SAMPLE SCHEDULE 1

This is just one example of how a student could organize their courses if pursuing a ESE major. It assumes a student begins taking ESE major courses in the first year. Sample Schedule 2 offers an alternate plan that begins in the second year. Students may propose alternative schedules to their advisors as well.

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Intro to Programming/ Computer Science	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Multivariable Calculus	Linear Algebra and Differential Equations or alternate course	English, Chinese, Core, or General Elective
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Year 2

Fall Semester

Perspectives on the Humanities	Physics I	Digital Logic	Core, General Elective, or Chinese
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Spring Semester

Core or General Elective	Physics II & Lab	Circuits	Core, General Elective, or Chinese
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Year 3 (These classes are only offered in NY or AD)

Fall Semester

Core or General Elective	Electronics	Electromagnetic Fields and Waves	Signals and Systems
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Spring Semester

Electrical and Systems Engineering Elective			
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Year 4

Fall Semester

Probability and Statistics or Theory of Probability	General Elective	General Elective	General Elective
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Spring Semester

Senior Capstone Design Project	General Elective	General Elective	General Elective
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ELECTRICAL AND SYSTEMS ENGINEERING

SAMPLE SCHEDULE 2

Year 1

Fall Semester

Global Perspectives on Society	Core Class (Calculus)	Physics I	English, Chinese, Core, or General Elective
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Spring Semester

Writing as Inquiry	Multivariable Calculus	Physics II & Lab	Intro to Programming/Computer Science	2-credit English or Chinese (if available)
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Year 2

Fall Semester

Perspectives on the Humanities	Digital Logic	Core Class	Core Class
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Spring Semester

Core or General Elective	Circuits	Linear Algebra and Differential Equations or alternate course	Core or General Elective
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Year 3

Fall Semester

Electronics	Signals and Systems	Electromagnetic Fields and Waves	Electrical and Systems Engineering Elective
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Spring Semester

Probability and Statistics or Theory of Probability	Electrical and Systems Engineering Elective	Electrical and Systems Engineering Elective	Electrical and Systems Engineering Elective
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Year 4

Fall Semester

General Elective	General Elective	General Elective or Chinese	General Elective
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Spring Semester

Senior Capstone Design Project	General Elective or Chinese	General Elective	General Elective
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SELF-
DESIGNED
HONORS
MAJOR

SELF-DESIGNED HONORS MAJOR

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 Assistant 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. By spring of the sophomore year, the plan of study must be submitted to and approved by the Academic Standards Committee.

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.

REQUIREMENTS FOR MINORS

The courses required for NYU Shanghai Minors are:

Biology Minor

A. Molecular and Cell Biology Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 Foundations of Biology Lab
- BIOL-SHU 30 (Formerly 264) Genetics **OR**
 - BIOL-SHU 263 Developmental Biology
- BIOL-UA 36 At the Bench: Applied Molecular Biology DNA Techniques **OR**
 - BIOL-UA 37 At the Bench: Applied Cell Biology **OR**
One approved class to count towards this minor

B. Genomics and Bioinformatics Minor

- 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
- BIOL-SHU 267 Microbiology and Microbial Genomics **OR**
 - BIOL-GA 1128 Systems Biology **OR**
 - BIOL-UA 58 Evolution

Business Minor

Required Courses

- BUSF-SHU 101 Statistics for Business and Economics
- BUSF-SHU 250 Principles of Financial Accounting
- ECON-SHU 3 Microeconomics
- ECON-SHU 251 Economics of Global Business (Students can take Intro to Macro and Intermediate Macro to substitute EGB)
- MATH-SHU 121 or 131 Calculus

Choose One Elective Course

Please note that the business minor elective list below is complete, no courses outside of the list will be approved.

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 202 Foundations of Finance
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 303 Corporate Finance
- BUSF-SHU 351 Competitive Advantage from Operations
- MGMT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing

Economics majors must complete two of the additional courses listed below to complete the minor within the double counting limits.

- BUSF-SHU 142 Information Technology in Business and Society
- BUSF-SHU 202 Foundations of Finance
- BUSF-SHU 210 Business Analytics
- BUSF-SHU 351 Competitive Advantage from Operations
- MGMT-SHU 301 Management and Organizations
- MKTG-SHU 1 Introduction to Marketing

Chemistry Minor

- CHEM-SHU 125 Foundations of Chemistry I
- CHEM-SHU 126 Foundations of Chemistry II
- CHEM-SHU 127 FoS Chemistry Laboratory
- CHEM-SHU 225 Organic Chemistry I + Organic Chemistry I Lab
- CHEM-SHU 226 Organic Chemistry II + Organic Chemistry II Lab

Chinese Minor

16 credits of Chinese language above Elementary II are required to complete the minor. Only 4 credits of those 16 can double-count with another degree requirement. Elementary I and II do not count toward fulfilling the requirements. Typical plan of study: Intermediate I, Intermediate II, Advanced I, and Advanced II.

A student who passes out of Intermediate I&II or Advanced I&II will have to replace the course(s) they placed out of with other Chinese language classes higher than the level(s) they placed out of. Only 4 credits of those 16 can double-count with another major or minor degree requirement.

Example 1:

GCS major who doesn't place out of Intermediate I must do the following for the Chinese minor:

- Intermediate I
- Intermediate II
- Advanced I and Advanced II (but can only count one towards the minor, because they are also required for GCS major.)
- Other course higher than Advanced II

Example 2:

Students who placed out of Advanced Chinese I and is taking Advanced Chinese II now are aiming for a Chinese minor. They can get a Chinese minor by taking:

- Advanced Chinese II (double counting one course between the major and the minor).
- 3 additional Chinese courses, such as Advanced High Business Chinese, Readings in Chinese Culture I, and Readings in Chinese Culture II.

Computer Science Minor

- CENG-SHU 202 Computer Architecture
- CSCI-SHU 101 Introduction to Computer Science (prereq: CSCI-SHU 11 Introduction to Computer Programming or placement exam)
- CSCI-SHU 210 Data Structures
- One computer science elective course

Computer Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CENG-SHU 202 Computer Architecture **OR**
- CENG-SHU 350 Embedded Computer Systems
- CSCI-SHU 11 Introduction to Programming **OR**
- INTM-SHU 101 Interaction Lab
- CSCI-SHU 101 Introduction to Computer Science
- EENG-SHU 251 Circuits

Creative Writing Minor

- WRIT-SHU 159 Introduction to Creative Writing (a prerequisite for the intermediate and advanced craft courses).
- Two intermediate/advanced craft courses
- An additional intermediate/advanced craft course or a designated elective

Data Science Minor

- CSCI-SHU 101 Introduction to Computer Science (prereq: CSCI-SHU 11 Intro to Programming or placement exam)

- CSCI-SHU 210 Data Structures
- CSCI-SHU 360 Machine Learning
- ECON-SHU 301 Econometrics
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability **OR**
- BUSF-SHU 101 Statistics for Business and Economics **OR**
- BIOL-SHU 42 Biostatistics

Economics Minor

- BUSF-SHU 101 Statistics for Business and Economics **OR**
- MATH-SHU 235 Probability and Statistics **OR**
- MATH-SHU 233 Theory of Probability **OR**
- MATH-SHU 234 Mathematical Statistics
- ECON-SHU 1 Principles of Macroeconomics **OR**
- ECON-SHU 251 Economics of Global Business
- ECON-SHU 3 Microeconomics **OR**
- ECON-SHU 2 Principles of Microeconomics
- ECON-SHU 202 Intermediate Macroeconomics **OR**
- ECON-SHU 10 Intermediate Microeconomics
- Two additional 4-credit courses from the Economics elective list

Electrical and Systems Engineering Minor

- CENG-SHU 201 Digital Logic
- CSCI-SHU 11 Introduction to Programming **OR**
- INTM-SHU 101 Interaction Lab
- EENG-SHU 251 Circuits
- Electrical and Systems Engineering Elective

Global China Studies minor

Four classes from the required and elective list of Global China Studies courses, of which at least one must be from the required list. Students may take up to two advanced or post-advanced language courses in fulfillment of this minor.

History Minor

Four classes from the required and elective list of Humanities major History courses.

Humanities Minor

Four classes from the required and elective list of Humanities major courses.

Interactive Media Arts Minor

- INTM-SHU 101 Interaction Lab
- INTM-SHU 120 Communications Lab
- 7-8 credits from the Interactive Media Arts Elective List

Literature Minor

Four classes from the required and elective list of Humanities major Literature courses.

Mathematics Minor

Four 4-credit mathematics courses at the Calculus level or higher. Of current math offerings, Mathematics for Economists and Mathematical Functions do not count for the minor.

Neural Science Minor

- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 FoS Biology Laboratory
- NEUR-SHU 201 Introduction to Neural Science
- NEUR-SHU 251 Behavioral and Integrative Neuroscience **OR**

Philosophy minor

Four classes from the required and elective list of Humanities major Philosophy courses.

Physics Minor

- PHYS-SHU 71 FoS Physics Laboratory
- PHYS-SHU 91 Foundations of Physics I Honors **OR**
CCSC-SHU 50 Physics I
- PHYS-SHU 93 Foundations of Physics II Honors **OR**
CCSC-SHU 51 Physics II
- PHYS-SHU 94 Physics II Laboratory
- Two Physics Elective Courses (Must bring total credits of the minor courses to 16 or more)

Social Science Minor

Students who wish to complete a minor in Social Science must complete one of the Methods courses from the list of approved Social Science Methods courses and three additional courses from the list of approved Social Science courses.

Global Network Minor

Students can complete a Global Network (GN) Minor using classes from one or more of the eleven Study Away Sites in NYU's global network. This option enables capable and highly motivated students to pursue a plan of study that brings together courses from more than one NYU department or program taught at a study away site.

These minors serve students who can realize their interdisciplinary goals within the NYU's global network drawing on courses from any of the study away sites. Even if all of the classes are from a single department in one of the other degree-granting campuses or is identical to a minor offered on one of those campuses, the GN minor is an NYU Shanghai minor and will be identified as such on the student's transcript. The other requirements and limitations for these minors are identical with the standard ones identified above for all minors.

GN minors require at least 2 courses from global sites and may be completed using courses taken at the associated study away site or degree-granting campuses. Courses and therefore minor availability may vary by semester, students should see each academic center's website for specific classes, and plan with their academic advisor how to complete the minor. Pursuing a GN minor does not guarantee acceptance to study at a study away site. A list of approved global network minors is available on the NYU Shanghai study away website. The courses that have been reviewed to count towards GN minors are also posted to the NYU Shanghai study away website. As students inquire about new courses, they are reviewed and added to the sheet.

Cross School Minor

Cross school minors offered by NYU Schools are available to NYU Shanghai students as listed on the NYU Cross-School Minors website. Students who successfully complete any of those Minors will have them identified by name as a Minor on the student transcript.

{ Part VII }

Course Descriptions

ART-SHU 105

Performance Art

In this course we will survey histories of performance as art from traditions ancient to modern through physical work, playwriting, and study of design. We'll work through repertoires and theatrical traditions of the Ancient Greeks alongside movements like Futurism, Dada, Surrealism, and the Bauhaus School. Using Kate Tempest's play *Brand New Ancients* with elements of spoken poetry and hip hop, we will workshop a new adaptation using students' original text and dramaturgy, ending the semester with a performance of our work. From Tempest's play: "The stories are here, the stories are you, and your fear and your hope is as old as the language of smoke, the language of blood, the language of languishing love."

ART-SHU 210

Introduction to Studio Art - Chinese Traditional Methods in Contemporary Art

This course will be an introduction to studio art for students who want to learn traditional Chinese art forms with contemporary expression, to traverse both cultural and temporal barriers of visual arts. These include calligraphy and ink painting as seen from a modern perspective. Students will examine the content of artwork, including ideas in contemporary and traditional art, both Chinese and international, and build various skills to translate ideas into reality. The course includes a study of ancient Chinese paintings, drawings of still-lives, as well as visits to local artists, galleries, and museums. 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

ART-SHU 211

Foundations in Painting

It is an exciting time in contemporary painting. The rules have changed. Artists are making paintings no longer limited by a particular medium or set of mediums. In the "Now," painting is made up of non-hierarchical inclusions of materials, many of which are non-art-mediums adopted for studio use, and various approaches that mirror the complexities and experiences of our daily lives. At the forefront of this non-hierarchical, cross-disciplinary attitude are artists such as Shahzia Sikander, Charline von Heyl, Mark Bradford, Os Gemeos, and Beatriz Mihazes. Students will learn or revisit foundational techniques, modes, forms, and applications – composition, color, form, space, surface, and texture using materials such as acrylic and oil paint, various mediums, ink, collage and transfer techniques, and reductive methods. Further, they will explore the implications and uses of materiality as a subject as well as a tool or medium. Students will also engage in selected readings to ground their visual pursuits in an historical and classical understanding as well as a theoretical, critical and contemporary context. Students will become proficient in the fundamental skills needed to write an artist statement, art critique and a work-in-progress conceptual outline.
Prerequisite: None

ART-SHU 222

Site and Situation: Social Space and Public Art

What is the relationship between "Site" and "Situation"? How do they influence and respond to one another in the context of social spaces? How do economic, political and global entities use social space as means of constructing collective identity and behavioural normativity? How can artists respond to these situations by making their own moves to interpret and re-situate site? Social spaces are designed and curated environments that reflect the attitudes and actions of community, manage human behaviours, and offer places of collective expression. They serve as a reflection of how we see and how we want to see the world and ourselves. Because they are sites which are closely tied to individual and collective identities, they are historically, also, sites which are managed by governing forces to foster narratives of collective identity. Public art is one aspect of how social spaces are defined and curated. However, what is "public art"? How is it interpreted and practised? How does public art situate site? How do curated social spaces provoke its inhabitants to reflect on their relationship to the city? And, how does this positioning situate our experiences of "Site"? Chinese artists are part of the global movement towards gaining more self-authorship and agency regarding the interpretation of sites. There is a growing focus on shifting emphasis to the concerns of local inhabitants, human interaction, and experiential needs – putting into question the historically monument-based approach to public art. Students will be introduced to those artists and their works in a global context. Prerequisites: None

ART-SHU 225A

Contemporary Dance

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. This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 225B

(Contemporary) Dance

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. This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 230

Ballet

This does not fulfill any major requirement. This course is an introduction to the fundamentals of classical ballet technique. A thorough warm-up will be given in each class to improve strength, balance, and coordination through various exercises. This class begins with barre, develops into stretch, adagio, and finishes with allegro and reverence. Throughout the semester, three major movement combinations will be taught and the student will be expected to demonstrate their mastery of those combinations. No prior dance experience is necessary. Prerequisites: None

ART-SHU 239.2

Choreography & Performance

This does not fulfill any major requirement. The purpose of this 2-credit course is to enable the student to gain an appreciation and knowledge of team building skills, collaboration, and the creative process through movement exploration, choreography and performance. Through individual and collective participation in bodywork, contact improvisation, developing phrases, and playing an active role in the final performance, students are physically and conceptually challenged and informed. Through better understanding space, control, aesthetics, alignment, and musicality as well as practicing learning strategies within a duet/group context, the student gains an appreciation not only for self and collective discovery, but also for the creative process underlining and shaping personal, artistic expression. All levels are welcome. No previous experience is required.

This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 239.4

Choreography & Performance

This does not fulfill any major requirement. The purpose of this 2-credit course is to enable the student to gain an appreciation and knowledge of team building skills, collaboration, and the creative process through movement exploration, choreography and performance. Through individual and collective participation in bodywork, contact improvisation, developing phrases, and playing an active role in the final performance, students are physically and conceptually challenged and informed. Through better understanding space, control, aesthetics, alignment, and musicality as well as practicing learning strategies within a duet/group context, the student gains an appreciation not only for self and collective discovery, but also for the creative process underlining and shaping personal, artistic expression. All levels are welcome. No previous experience is required.

This class counts towards the Tisch School of the Arts Dance Minor.

ART-SHU 242

Minority and Folk Dance (Southern China)

This course provides an introduction to minority and ethnic folk dances in southern China. It explores the forms of these dances as well as the culture, religion, history, and natural environments influencing the creation of these dance forms. The Spring 2020 semester the focus will be on Tibetan 藏族, Dai 傣族 or Wa 佤族 minorities. Students learn the legends, stories, and myths surrounding each dance form as well as the distinct movement beats, rhythms, and traditional combinations.

This course counts towards the Dance Minor.

ART-SHU 243

Minority and Folk Dance (Northern China)

This course provides an introduction to minority and ethnic folk dances in northern China It explores the forms of these dances as well as the culture, religion, history, and natural environments influencing the creation of these dance forms. The Fall 2019 semester the focus will be on Yianbian Korean 朝鲜族, Uighur 维吾尔族 or Mongolian 蒙古族 minorities. Students learn the legends, stories, and myths surrounding each dance form as well as the distinct movement beats, rhythms, and traditional combinations. This course counts towards the Dance Minor.

ART-SHU 250

Visual Culture and Social Art Practice: Collaborations and Community Interactions

What role does art play in our contemporary society? Who is it for, what does it represent, and why? How can we, as visual culture participants and producers, ensure that we are relevant, engaged, engaging, and inclusive? How does locality and culture play a part in how we think about and present what we are making? The main purpose of this course is to integrate students into Shanghai through outreach and collaborative projects in order to give them the opportunity to interact artistically and directly with Chinese communities as well as consider themselves in relation to those communities. They will develop and realize projects specific to various communities in Shanghai. Students will learn to incorporate theory, studio, and social engagement practices (collaborative, workshopping, and interactive skills) in their understanding and making of art. They will consider notions of visibility, viewership, and authorship, in a global context, joining the dialogue regarding art practice shifting towards engaging communities

outside of the specific art sphere. In the visual arts, conscious engagement with communities is both a way to open up new considerations and approaches to visual culture language as well as make spaces for autonomy and agency. Class fees: \$25.00 per student. Prerequisites: None

ART-SHU 251

Typography in the Urban Environment

In our ever-expanding world, we are increasingly confronted with an abundance of textual and visual messages. The digital age and globalization have provided us with the ability to draw from cultures and aesthetics with a speed and flexibility previously unheard of. The overload of messaging is thus styled in texts, images, and attitudes influenced by this influx of multiple cultural origins - resulting in vast numbers of new typefaces. There are now over 150,000 typefaces, and growing every day. China was on the vanguard of printed matter (through carved seals and woodcuts) and establishing text as art (through poetry, calligraphy, and image-based scrolls), thus it has a long history of typeface styles, as well as printing and dissemination practices. Using this as a starting point, students will develop an understanding of typography and the uses of visual culture (in textual and image forms) in both the public and art spheres. Although typography is an element that we encounter every day in abundance, we often do not actually "see" or consider it. The methodology and practices of typographic usage coupled with images compose complex layers of meaning. As one of the leading factors in shaping visual culture, understanding the underlying messages embedded in signage - its cultural, economic, social, and political implications - provides interesting insight into how to interpret the messaging in our immediate surroundings. Prerequisites: None

ART-SHU 255

Printmaking in an Expanded Field

Printmaking in China has a long and varied history. Originally, stamps and official seals were carved out of stone, jade, and other hard materials. Eventually, softer wood was used as it was vastly easier to carve and more economical, thus establishing a tradition of Chinese relief printing on a vast scale. Despite originating in China, wood block prints are more often associated with Japan due, in part, to preferences held in the "eye of the beholder" rather than for any innate technical or artistic merit. In this comparative course students will consider complex issues such as appropriation versus translation; authenticity; and artistic cultural identity and ownership as they relate to art making and exhibition practices around the globe. Students will learn techniques, modes, forms, and applications of printmaking - monotypes (transfers and rubbings), relief prints (stamps and wood cuts), intaglio (dry point engraving), stencils, and mixed media technique - in a conceptual framework of global visual culture. Course fees: \$70.00 per student. Prerequisite: None.

ART-SHU 274

Woodblock Printmaking: Practice and Theory

Students will be introduced to woodblock printmaking techniques in conjunction with its history, starting with the origins - relief stone rubbings and wood block printmaking in China. From this starting point, they will trace the global history of relief printing as it crossed China's borders into Japan and elsewhere in Asia and Southeast Asia and, finally, the West. Students will become familiar with this history and technique through practical application as well as an historical and theoretical lens. In order to contextualize the forms, functions and representations therein, students will consider contemporary Chinese artists working with woodblock prints in relation to artists from elsewhere around the globe. Students will learn foundational techniques, modes, forms, and applications of relief prints (stamps and woodcuts) and, through this hands-on experience, gain a deeper understanding and appreciation of the art form. There will be gallery and museum outings in order to expose students to both historical and contemporary Chinese prints. Prerequisite: None.

ART-SHU 275

Mark Making: From Basic Drawing Skills to Contemporary Approaches to Drawing

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 (This course is reserved for Shanghai students).

ART-SHU 301

Introduction to Photography I

Introduction 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 museum 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. Work by artists are examined to provide the framework and vocabulary to articulate the students' own photographic investigations.

ART-SHU 306

Moving Images

Moving Images 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 3-6 hours of course work per week outside of class. Prerequisites: None.

ART-SHU 629

The Villain

What makes a villain and who decides? In this course, we will track the evolution of the villain across the globe and through the ages, exploring representations of evil in myth, literature, and art history, as well as on the stage and screen. We'll identify the origins of iconic imagery and characteristics, interrogate the scapegoating of certain characters or populations, and question our own perceptions of villainy. Our material will include sacred text, Shakespeare, Japanese Noh, political documents, psychological studies, horror films of early cinema, and relevant works of today from Disney to Black Panther. Assignments will take the form of textual analysis and research, as well as artistic responses in the form of performance, music, photography, and video, all seeking to understand new perspectives on those we label "villain." Prerequisites: None

ART-SHU 1010

Making Theatre

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. Prerequisites: None.

ART-SHU 1910

Projects in Studio Art - Chinese Traditional Methods in Contemporary Art

This course is designed for studio artists who want to create a succinct body of artwork while studying in Shanghai. Students will create contemporary artworks using traditional Chinese art forms to traverse both cultural and temporal barriers of expression, creating a unique integrated style of work. Students of traditional Western methods of art making, including drawing, painting, sculpture, and printmaking, are going to be asked to work out of traditional Chinese art methods, including calligraphy and ink painting. Also, students will have the opportunity to combine Western and Chinese methods of art making. Students will examine the content of artwork, including ideas in contemporary and traditional art, both Chinese and international, and build various skills to translate ideas into reality. The course includes a study of ancient Chinese paintings, drawings of still-lives and live models, as well as visits to local artists, galleries, and museums. Class time will be devoted to individual projects and critiques, lectures, and group discussions. As a final project, students will integrate their living experiences in Shanghai with personal experience and/or the societal landscape, to create a substantial body of artwork for a group exhibition. Prerequisite: Instructor Consent Required.

ART-SHU 9077

Contemporary Art & New Media

Over the past three decades, the contemporary art scene in China has expanded fast. The massive political, economic, and social changes the country has undergone since the end of the Cultural Revolution in 1976 have dramatically altered its cultural landscape. The course will survey the main development areas in Chinese contemporary art. Dedicated to responding to the new textures of China's metropolitan culture, it will look at the relationship between visual arts, new media, architecture and performance in the mega-city of Shanghai, often regarded as the cradle of Chinese modernity. The class will be complemented by guest lectures and visits to public museums, galleries and artists' studios in and around Shanghai. Students will have the opportunity to meet leading figures from the art world in China as well as the international art community, including artists, museum directors, curators, art critics, and art dealers.

MUS-SHU 56

Piano (Private Lessons) - 2 credits

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. Prerequisite: 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).

MUS-SHU 56.2

Piano (Private Lessons) - 4 credits

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. Prerequisite: 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).

MUS-SHU 59

Group Piano for Beginners

For Non-Majors.

MUS-SHU 60

Group Piano for Intermediate Beginners

For Non-Majors.

MUS-SHU 61

Group Piano for Advanced

For Non-Majors.

MUS-SHU 102

Group Erhu: Beginner

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 103

Bamboo Flute: Beginner

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 105

Guqin: Beginner

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 202

Erhu Intermediate Level

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 203

Bamboo Flute Intermediate Level

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 205

Group Guqin Intermediate

Note: Introductory Chinese recommended. Some course instruction in Chinese.

MUS-SHU 219

Music of Shanghai

Centered around attending a variety of musical performances in Shanghai, the course consists of lectures, readings, listening and discussions. Students work on refining critical listening skills and develop a greater knowledge of music as an integral part of society and in particular, Shanghai's past and present artistic community. Genres include: jazz, classical, indigenous, fusion, theatre music and contemporary pop/rock. This course satisfies 2 credits of the Chinese Arts Core Curriculum. Prerequisites: None.

MUS-SHU 225

The Structure of Music

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. Prior musical study is recommended, but not necessary.

MUS-SHU 1085

Choral Arts: NYU Shanghai Chorale

For Non-majors. The NYU Shanghai Chorale will explore all types of choral music - pop, jazz, classical etc., with

a focus on singing and musicianship skills in a fun environment. Those taking the course 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.

MUS-SHU 1179.1

Chamber Ensemble: Orchestra

MUS-SHU 1511

Vocal Training: Group - 2 credits

This course introduces the practice of singing 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 objective of this course is to improve students' confidence in singing, and most importantly, having fun singing and performing together. Students may also have one or two field trip opportunities to watch performances in Shanghai.

MUS-SHU 1512

Private Voice Instruction - 2 credit

This does not fulfill any major requirement. 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 storytelling. Students may also have one or two field trip opportunities to watch performances in Shanghai. Prior training/permission of instructor required; contact jw2453@nyu.edu

MUS-SHU 1514

Private Voice Instruction - 4 credit

This does not fulfill any major requirement. 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 storytelling. Prior training/permission of instructor required; contact jw2453@nyu.edu

Biology

BIOL-SHU 1

Introduction to Biology

This course introduces about the principles and technologies of modern biology. It covers the cellular and molecular structure of organisms, how life works on energy and metabolism basis, how life reproduces on cell division and inheritance with 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.

BIOL-SHU 3

Explore the Cell: From Gene to Protein

The laboratory course will teach students the skills needed in molecular biology research such as the hands-on techniques of sterile technique, genetic transformation, gene expression, gel electrophoresis, and nucleic acid quantification. The lab course will also emphasize literature search, scientific writing, lab notes taking, power point presentations, data analysis, and best practices in lab safety. The ED Biology 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 or discussion of the material. In the beginning of the class, there will be a 15 minutes presentation session from the students. The students can choose any topic of interest from classical to modern biology, from everyday life to cutting edge breakthroughs, to achieve an overview comprehension of biological science and classroom diversity.

BIOL-SHU 5

Nutrition, Fitness and Health

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.

BIOL-SHU 21

Foundations of Biology I

BIOL-SHU 22

Foundations of Biology II

Our objective is to provide a concrete foundation in the principles of modern molecular and cellular biology. These concepts form almost all basis for the great discoveries now being made in biology and the medical science. In this course, we will discuss how proteins and biomolecules are sorted in the cell, how cells maintain structural framework, how cells multiply, how cells regulate transport cross membranes, how cells interact with environment, and how cancer cells arise. In addition, we will discuss about principle experimental methods of modern cell biology. An emphasis is place on understanding molecular mechanism of essential process, but not memorizing details. In recitations, students will discuss modern research papers related to the topics that are covered in lecture. Students should be able to understand the biology of the paper and criticize its potential pitfall. Prerequisite: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus AND BIOL-SHU 21 Foundations of Biology I

BIOL-SHU 26 (formerly 263)

Developmental Biology

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-250, or Foundations of Science III Biology, or Foundations of Biology II.

BIOL-SHU 30

Genetics

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-22.

BIOL-SHU 31

Genetics Laboratory

Pre-req or co-req: BIOL-SH 30 Genetics or BIOL-UA 30 Genetics

BIOL-SHU 123

FoS Biology Laboratory

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. 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. Prerequisite: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus AND BIOL-SHU 21 Foundations of Biology I

BIOL-SHU 200

Molecular Biology of Cancer

The course is designed to provide comprehensive molecular and cellular understanding of tumorigenesis and modern cancer research. Various topics in cancer biology will be discussed in the course such as histopathological progression of cancer, its underlying molecular mechanism, and rational therapeutics. Thus, students will learn how multicellular eukaryotic organisms evolve to prevent tumorigenesis process and how exploitative cancer cells break through those defensive mechanisms. During the course, students will be required to read various research papers in cancer studies and discuss their impacts and possible pitfall, which will enhance students' critical thinking ability. Prerequisite: BIOL-SHU 22 Foundations of Biology II

BIOL-SHU 250

Organismal Systems

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: CCSC-SHU 114 or BIOL-SHU 21.

BIOL-SHU 261

Genomics and Bioinformatics

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: FoS Biology 1 AND Biostatistics or Statistics AND ICP, Introduction to computer programming.

BIOL-SHU 263

Developmental Biology

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-250, or Foundations of Science III Biology, or Foundations of Biology II.

BIOL-SHU 271

Cell Biology: Body's Battle with Cancer

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. Prerequisite: Foundations of Biology I (BIOL-SHU 21)

BIOL-SHU 314

Advanced Cell Biology Lab

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 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. The course is designed as an upper level 4-credit major elective course, for biology and neural science majors mainly, and open to other natural science majors who have taken Foundation of Biology I or II, or FoS Biology Lab.

BIOL-SHU 400

Independent Study - Biology Capstone

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.

BIOL-SHU 997

Independent Study - Biology

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 Discipline Leader in Biology 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.

BIOL-SHU 998

Integrated Science Capstone

This course provides students with a completion of their undergraduate science education by applying the skills and knowledge they acquired over the course of their major 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. Prereqs: students must have completed (or enrolled in) all remaining major requirements.

BIOL-SHU 999

Biology Undergraduate Research Thesis

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.)

BUSF-SHU 3

Business and Economics Honors Seminar

Prerequisite: Permission by the Coordinator of Business Honors Program.

BUSF-SHU 5

Principles of Finance for Non-majors

This course is for Non-Business and Non-Data Science with Finance Concentration students. It is a general elective course.

BUSF-SHU 101

Statistics for Business and Economics

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. Prerequisite: None.

BUSF-SHU 142

Information Technology in Business & Society

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: None.

BUSF-SHU 188

Chinese Business and Finance -- A Bilingual Introduction

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.

BUSF-SHU 200B

Topics in Business: Real Business Case Projects

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.

BUSF-SHU 200C

The Globalization of Business Enterprise

The Globalization of Business Enterprise (GLOBE) focuses on globalization and its implications for business and individuals. The course examines the global business environment and practices, places emphasis on implications of the globalization on business strategy, functional policies, as well as on individuals who make decisions on their professional and personal lives. The course is composed of four modules that review the facts about globalization on a spectrum of macro to managerial to personal aspects and spark reflections about the future agenda for global business leaders. These four modules are: 1) introduction of globalization, its myths, and business consequences; 2) presentation of the theoretical framework that analyzes similarities and differences and related strategic/functional implications on business decision-makers; 3) strategic responses to globalization on how to overcome and take advantage of cross-border differences; 4) globalization and you: to help the students to understand the importance of planning a global career and expanding their horizons to become a better global citizen. As a key characteristic, the course uses real-world case studies as a foundation for the application of theory, analysis of strategy and discussions on successes and pitfalls. Open to Juniors and Seniors.

BUSF-SHU 200D

Business Consulting in China

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 and/or Intro to Marketing, or upon approval by the instructor; requires Junior or Senior standing

BUSF-SHU 200E

Network Analytics

In our modern interconnected world, with global online communities and information systems, network structure drives critical processes, shaping how our social, economic, and technological systems function and evolve. Analyzing interconnected data allows us to answer fundamental questions of how localized decisions and actions impact the behavior of the entire system. Network data pose significant challenges to mainstream Data Science and Machine Learning as entities connected in networks have complex correlations that violate the assumption on the independence of the data points. This course combines theories and models from computer science, economics, and the social sciences to guide the analysis of network data. Topics include combinatorial and probabilistic techniques for link analysis, strategic behavior in networks, game theory, centralized and decentralized search algorithms, network models based on random graphs, and the spread of belief, opinions, and convention through social networks. Prerequisites: Introduction to Computer Programming (to manipulate network datasets), Calculus, and Statistics.

BUSF-SHU 202

Foundations of Finance

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: BUSF-101 and ECON-3.

BUSF-SHU 208

Chinese Financial Markets

This course introduces the institutions, instruments, and empirical regularities of Chinese financial markets. The target is to provide students with a comprehensive understanding of Chinese financial markets. It focuses on current issues and debates about Chinese financial markets, including 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 ones will be highlighted. (fulfills NYU Shanghai Business major Finance Elective).

BUSF-SHU 210

Business Analytics

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. A prior Statistics Course (BUSF-SHU 101)

BUSF-SHU 220A

Topics in Business - 2 cr: Chinese and International Accounting

During the past decade, the world has witnessed one of the most significant changes ever happened to corporate financial reporting - the global adoption of IFRS (International Financial Reporting Standard). So far, nearly 70 countries (including all EU countries) have mandated IFRS for their listed companies, and about 40 countries are in the process of converging to IFRS. China started its convergence to IFRS in 2007, and by 2010 the Chinese Accounting Standards (CAS) were about three-quarters of the way towards full agreement with IFRS. With tremendous changes in accounting standards around the world, students who want to succeed in an era of globalization must be able to read and interpret financial statements prepared under different accounting standards. The main objective of this course is to increase students' awareness of the broad spectrum of alternative approaches to accounting systems in the world and why they exist. To achieve this goal, this course will discuss knowledge of International Financial Reporting Standards, including its history, new standard adoption, the recording of financial transactions, and financial statement presentation, with an emphasis on China's convergence to IFRS and existing differences between IFRS and US-GAAP. Students will also explore concurrent issues in standard setting in the main economies such as China, the EU, and the United States which will help them develop the ability to conduct an analysis of financial reports prepared under different accounting standards. Prerequisite: BUSF-SHU 250 (Principles of Financial Accounting)

BUSF-SHU 220J

Topics in Business: Ethical Decision Making and Leadership

Whatever direction you take in your professional career after graduation – working as an entrepreneur, or being employed by a private business company, or having a position at a non-profit organization – you will eventually face a variety of ethical dilemmas which you must resolve. Many of these dilemmas will require you to balance potentially competing interests, such as your own personal interests, the interests of the organization where you work, and broader societal expectations. The purpose of this course is to introduce you to the broad range of ethical issues you may encounter, and to help you develop a set of analytical perspectives for making judgments when such issues arise. You will learn to identify and navigate ethical grey zones with more confidence and better results, which will ultimately assist you in being a more effective leader. The ethical issues covered in class will be timely and will include topics that can be found on a regular basis in global news headlines. The basic 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. There is no prerequisite and it can be counted as a 2-credit non-finance/non-marketing business elective; IMB Business elective.

BUSF-SHU 221

Professional Responsibility & Leadership

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. Prerequisite: None. Satisfies 2 credits of Business Major Non-Finance/Non-Marketing elective.

BUSF-SHU 222

Risk Management in Financial Institutions

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.

BUSF-SHU 222A

Risk Management in Financial Institutions: Market Risk

This course is divided into two 2-credits offerings: Market Risk and Credit Risk. Students may enroll in one or both of the courses. The 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. Prerequisites: Foundations of Finance

BUSF-SHU 222B

Risk Management in Financial Institutions: Credit Risk

This course is divided into two 2-credits offerings: Market Risk and Credit Risk. Students may enroll in one or both of the courses. The 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. Prerequisites: Foundations of Finance

BUSF-SHU 225

Negotiation and Consensus Building

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 understand the structure of negotiation as it is practiced in a variety of settings, and to help students 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

BUSF-SHU 229

Behavioral Finance

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. Prerequisites: Corporate Finance.

BUSF-SHU 244

Portfolio Management

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.

BUSF-SHU 250

Principles of Financial Accounting

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: Sophomore standing or higher.

BUSF-SHU 270

Financial Reporting & Disclosure

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.

BUSF-SHU 271

Artificial Intelligence for Business

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.

BUSF-SHU 272

Blockchain and its Business Applications

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.

BUSF-SHU 286

Chinese Financial Markets

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. It focuses on current issues and debates about Chinese financial markets, including 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 markets will be highlighted. Prerequisites: Foundations of Finance or Principles of Finance.

BUSF-SHU 288

Doing Business with China

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.

BUSF-SHU 303

Corporate Finance

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.

BUSF-SHU 304

Futures and Options

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-202.

BUSF-SHU 305

Debt Instruments and Markets

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-202.

BUSF-SHU 307

Private Equity & Venture Capital in Asia and Emerging Markets

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 Asian emerging markets and western markets. The entire PE/VC life cycle will be discussed from different perspectives. The course is designed to prepare students to have a good general understanding of private equity and venture capital especially with an Asian focus. This will provide an overview of investments, financing, strategies and other elements in private equity and venture capital 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. Prerequisites: Foundations of Finance, Corporate Finance and Economics of Global Business (or Macroeconomics). While not required, other valuation courses such as Equity Valuation 321 etc. are helpful. Co-Requisite: BUSF-SHU 206 Investing And Financing In And With China. Counts as a finance elective for the Business majors when taken together with the co-requisite course above.

BUSF-SHU 308

Hedge Fund Strategies

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. Prerequisites: Corporate Finance

BUSF-SHU 309

Financial Statement Analysis

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: Co-req OR Pre-req Principles of Financial Accounting.

BUSF-SHU 311

New Venture Strategy

This course introduces students to a new class of decision-making framework and tools for optimizing the most critical strategic choices faced by new ventures. The major topics include (1) identify and choose between alternative opportunities, (2) choose between different markets, technologies and business models, (3) formulate commercialization strategies, (4) evaluate the financial attractiveness of a business opportunity and different deal structures, and (5) form and manage diverse teams. This course will consist of theory-based lectures, case discussions, and guest presentations. It is suitable for students interested in founding or working in start-ups, as well as in related careers such as consulting and venture investing.

BUSF-SHU 312

International Trade and Business

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. Prerequisite: None.

BUSF-SHU 321

Equity Valuation

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: Foundations of Finance AND Corporate Finance. This course satisfies Business & Finance Elective.

BUSF-SHU 334

Advanced Futures and Options

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. Prerequisites: Foundations of Finance

BUSF-SHU 340

Advanced Financial Accounting

This course satisfies the following: Business and Finance Major: Non-Finance Elective; Business and Marketing Major: Non-Marketing Elective. Prerequisite: None.

BUSF-SHU 350

Managerial Accounting

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).

BUSF-SHU 351

Operations Management

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.

BUSF-SHU 997

Business Independent Study

MGMT-SHU 18

Strategic Analysis

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, students will learn to think critically and analytically about competitive business situations. This course emphasizes the need to look outward to the environment and inward to a firm's resources and capabilities and operating policies. It describes a firm's strategy as the formulation of "competitive strategy," "corporate strategy," and "organizational strategy".

MGMT-SHU 21

Managerial Skills

Many companies bestow a management title on key talent and expect appropriate behavior to follow. Increasing self-awareness and being open to feedback are important first steps in leading today's business for tomorrow's results. Focusing primarily on the practical aspects of managing, this course is highly interactive and, while based on solid research, it stresses a hands-on approach to improving management skills. Students will not only learn about management skills but will begin to apply those skills to become a more effective business leader. Pre-req OR Co-req: Management & Organizations.

MGMT-SHU 301

Management and Organizations

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: None.

MKTG-SHU 1

Introduction to Marketing

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: Sophomore standing or higher.

MKTG-SHU 2

Consumer Behavior

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. Prerequisites: Intro to Marketing

MKTG-SHU 3

Advertising Management

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. Prerequisite: Intro to Marketing (MKTG-SHU 1)

MKTG-SHU 9

Research for Customer Insights

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)

MKTG-SHU 57

Digital Marketing

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)

MKTG-SHU 64

Global Marketing Strategy

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. Prerequisites: Introduction to Marketing

MKTG-SHU 110

Topics: Practicum on Innovation and Branding

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. Satisfies IMB Major, and Business Major - Marketing Elective if Intro to Marketing has been taken, otherwise Non-finance/Non-marketing Elective)

MKTG-SHU 200

Strategic Marketing in China: Live Projects and Case Studies

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. Prerequisites: Introduction to Marketing, requires junior or senior standing.

MKTG-SHU 229

Luxury and Luxury Marketing

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.

SOIM-SHU 6

Law, Business & Society

This course challenges undergraduate students to think deeply about legal systems and the continual evolution of business practice and business law. This process is multidimensional and involves social, political, ethical, and technological factors. In the course, students examine how key areas of business law influence the structure of societal and business relationships, while honing their analytical, communication, and writing skills. While focusing on the American legal tradition, the course taught in Shanghai Spring 2016 will involve select points of comparison with legal and business practice in China. Stephen Harder is the managing partner of the China practice of the international law firm Clifford Chance. He is based in Shanghai where his practice focuses on cross border project transactions of Chinese institutions. When based previously in Europe and New York, he acted as counsel for the Russian and Polish privatization programs and the Polish sovereign debt restructuring. He has written on "China's Sovereign Wealth Fund: The Need for Caution" in the International Financial Law Review, and spoken recently at Harvard and Columbia on "China Ventures Forth - Advising China on Foreign Investments" and "China in the Balance: Needed Reforms, Vested Interests and the Choices Facing China's New Leaders". He has also written on "Political Finance in the Liberal Republic" in the Annals of the American Academy of Political and Social Sciences. He received his undergraduate degree in Chinese Studies from Princeton and his MBA and JD degrees from Columbia. Open to all Seniors, Juniors, with preference to Stern program students. Interested sophomores need to request permission from the instructor.

SOIM-SHU 65

Organizational Communication and Its Social Context

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. Prerequisites: None, but priority to business majors; not open to freshmen.

SOIM-SHU 165

Advanced Organizational Communication

Advanced Organizational Communication builds upon the oral and written communication skills developed in its prerequisite course, Organizational Communication & its Social Context. This advanced course provides opportunities for students to continue developing their communication skills in a variety of contexts while working and presenting to multiple audiences. In this course, students will have the opportunity to persuade real life stakeholders to take action; such activities include making a stock pitch to a financial expert, speaking to a large audience of peers / professors at an NYUSH Student-run Speaker Series, and developing a social impact plan for an actual corporate client. Presentations will vary in size and delivery method (virtual, in-person, board-room style, auditorium style, etc.). In some cases, you will work to adapt the same presentation into multiple formats. Additionally, we will incorporate role-plays, impromptus, team communication (running meetings, supportive communication, consensus building), and group discussions throughout the course. Two writing assignments will reflect content from the oral presentations in typical business document format. The course will be highly participative, real world, and interactive. The professor will do everything he can to engage real-life audience members and facilitate practical, experiential learning. Participation, taking risks, and working beyond one's comfort zone are essentials for success in this class. Prerequisite: Organizational Communication & its Social Context OR

Instructor permission.

SOIM-SHU 9006

Law, Business, & Society

This course challenges undergraduate students to think deeply about legal systems and the continual evolution of business practice and business law. This process is multidimensional and involves social, political, ethical, and technological factors. In the course, students examine how key areas of business law influence the structure of societal and business relationships, while honing their analytical, communication, and writing skills. Prerequisite: None.

CHEM-SHU 125

Foundations of Chemistry I

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 131 (Calculus) or MATH-SHU 201 (Honors Calculus)

CHEM-SHU 126

Foundations of Chemistry II

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. Prereq: CHEM-SHU 125 Foundations of Chemistry I AND pre-req or cor-req: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus

CHEM-SHU 127

FoS Chemistry Laboratory

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. Prereq or coreq: MATH-SHU 131 Calculus (or MATH-SHU 201 Honors Calculus) AND CHEM-SHU 126 Foundations of Chemistry II

CHEM-SHU 225

Organic Chemistry I

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: CCSC-SHU 109 or CHEM-SHU 126. This course satisfies: Chemistry Major: Additional Required Courses

CHEM-SHU 225L

Organic Chemistry I Lab

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)

CHEM-SHU 226

Organic Chemistry II

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 201 (225). This course satisfies: Chemistry Major: Additional Required Courses.

CHEM-SHU 226L

Organic Chemistry II Lab

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. This course satisfies: Chemistry Major: Additional Required Courses.

CHEM-SHU 312

Analytical Chemistry

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: Foundations of Chemistry II and FoS of Chemistry Laboratory.

CHEM-SHU 651

Physical Chemistry: Quantum Mechanics and Spectroscopy

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. Prereqs: CHEM-SHU 126 Foundations of Chemistry II) and CHEM-SHU 127 (FoS Chemistry Laboratory) and MATH-SHU 131 (Calculus) and (PHYS-SHU 12 (General Physics II) OR PHYS-SHU 93 (Foundations of Physics II Honors)). This satisfies a Required Course of the Chemistry Major.

CHEM-SHU 652

Physical Chemistry: Thermodynamics and Kinetics

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. Prereqs: CHEM-SHU 126 Foundations of Chemistry II and PHYS-SHU 93 Foundations of Physics II Honors/CCSC-SHU 51 Physics II. Multivariable Calculus is strongly recommended. Linear Algebra and Differential Equations is also recommended.

CHEM-SHU 661

Physical Chemistry Laboratory

Introduction to the principles and practices of experimental methods widely used in analytical and research laboratories. Emphasizes understanding of background physicochemical theory, as well as capabilities and limitations of methods and interpretations of data. Covers instrumental methods, such as UV/visible spectroscopy, FT-IR, NMR, and fluorescence, for the systematic characterization of compounds and the use of interfaced computers for data collection and spreadsheet analysis. Studies also include an introduction to computer modeling of molecular properties. Optional experiments include fluorescence studies of protein denaturation and laser studies of excited state kinetics. Prereq or coreq: CHEM-SHU 651 (Physical Chemistry: Quantum Mechanics and Spectroscopy) OR CHEM-SHU 652 (Physical Chemistry: Thermodynamics and Kinetics). This satisfies a Required Course of the Chemistry Major.

CHEM-SHU 711

Inorganic Chemistry

Studies of methods in inorganic chemistry that make use of symmetry to describe bonding and spectra of inorganic compounds with an interdisciplinary emphasis whenever feasible. Reactions and kinetics are also discussed for inorganic, organometallic, and bioinorganic compounds. Selected topics in main group chemistry are also included. Prereq: CHEM-SHU 226 (Organic Chemistry II) AND prereqs or coreqs (CHEM-SHU 651 (Physical Chemistry: Quantum Mechanics and Spectroscopy) and CHEM-SHU 652 (Physical Chemistry: Thermodynamics and Kinetics)). This satisfies an Elective Course of the Chemistry Major.

CHEM-SHU 752

Computational Chemistry

Computational Chemistry, the study of chemical systems with computer modelling and simulation, provides a sophisticated set of tools that every practicing chemist should know about. This course will introduce both the theoretical and practical aspects of modern computational chemistry, with an emphasis on quantum chemical methods. Lectures are combined with hands-on computational exercises using state-of-the-art high-performance computing-based tools. Topics include Molecular Mechanics, Molecular Dynamics, Ab Initio Molecular Orbital Theories (Hartree-Fock and Density Functional Theory), Calculation of Molecular and Spectroscopic Properties, and Electronic Excitations. With these tools, students will engage in an independent research project of their design. Prerequisites: [Physical Chemistry: Quantum Mechanics and Spectroscopy (CHEM-SHU 651) OR Quantum Mechanics (PHYS-SHU 301)] AND [Physical Chemistry: Thermodynamics and Kinetics (CHEM-SHU 652) OR Statistical Mechanics

and Thermodynamics (PHYS-SHU 302])

CHEM-SHU 881

Biochemistry I

This course offers deeper and more complete treatments of the chemistry of living cells and biological chemistry than in the Foundations of Science courses. 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. Prereq: CHEM-SHU 226 (Organic Chemistry II). This satisfies an Elective Course of the Chemistry Major.

CHEM-SHU 882

Biochemistry II

Building on the lessons of Biochemistry I, Biochemistry 2 emphasizes analysis of basic metabolic pathways, including glycolysis, electron transport, and oxidative phosphorylation, as well as mechanisms of metabolic regulation and integration. Prereq: CHEM-SHU 881 Biochemistry I. This satisfies an Elective Course of the Chemistry Major.

CHEM-SHU 997

Independent Study – Chemistry

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.

CHEM-SHU 998

Integrated Science Capstone

This course provides students with a completion of their undergraduate science education by applying the skills and knowledge they acquired over the course of their major 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. Prereq: students must have completed (or enrolled in) all remaining major requirements.

CHEM-SHU 999

Chemistry Undergraduate Research Thesis

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.)

Computer Science

CSCI-SHU 11

Introduction to Computer Programming

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. This course satisfies: Core Curriculum: Programming and Computational Thinking. Note: Students who have taken ICS in NY, Abu Dhabi, and Shanghai cannot take ICP. Prerequisite: Either placed into Calculus or at least a C in Pre-Calculus.

CSCI-SHU 101

Introduction to Computer Science

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.

CSCI-SHU 188

Introduction to Computer Music

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)

CSCI-SHU 210

Data Structures

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). This course satisfies: Core Curriculum: Programming and Computational Thinking; Major: CS Required, Data Science Required, CE Required.

CSCI-SHU 213

Databases

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: Data Structures.

CSCI-SHU 215

Operating Systems

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: Data Structures; Computer Architecture or Computer Systems Organization.

CSCI-SHU 220

Algorithms

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. This course satisfies: Major: NS Electives, CS Required, Data Science Concentration in Computer Science.

CSCI-SHU 222

Introduction to Game Programming

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.

CSCI-SHU 235

Information Visualization

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. This course satisfies: Major: CS Electives, Data Science Data Analysis Required. Prerequisite: Data Structures.

CSCI-SHU 240

Introduction to Optimization and Mathematical Programming

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. Prerequisites: ICP; AND Calculus (MATH-SHU 131) or Honor Calc (MATH-SHU 201); AND Prob and Stats (MATH-SHU 235) or Stats for Bus and Econ (BUSF-SHU 101) or Theory of Probability (MATH-SHU 233).

CSCI-SHU 308

Computer Networking

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 of 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 Ethereal labs. Prerequisite: CSCI-101 or placement test. This course satisfies: Major: CS Electives, EE Additional Electives.

CSCI-SHU 350

Embedded Computer Systems

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-202 or CENG-SHU 201. This course satisfies: Major: CE Required, EE Additional Electives.

CSCI-SHU 360

Machine Learning

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 perception 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. Prerequisite: CSCI-101 OR CSCI-11 OR placement test; MATH-131 OR MATH-SHU 201 or placement test; prereq or co-req: MATH-150 or MATH-233 or BUSF-101. This course satisfies: Major: NS Electives, CS Electives, Data Science Data Analysis Required.

CSCI-SHU 375

Reinforcement Learning

Reinforcement Learning (RL), a form of machine learning and a branch of Artificial Intelligence, enables an agent to learn in an interactive environment by trial and error using feedback from its own actions and experiences. RL seeks to learn a good policy for taking actions, using rewards and penalties as signals for positive and negative behavior. Modern RL problems are formulated as Markov decision processes with unknown environments. There are two major sub-branches of reinforcement learning: tabular reinforcement learning for relatively small state spaces;

and deep reinforcement learning, which combines deep learning and reinforcement learning, and is appropriate for environments with large (including continuous) state and action spaces. The course will cover both tabular and deep reinforcement learning. Probability theory and algorithms will be used throughout the course. Assignments will involve both mathematical derivations and programming assignments. Prerequisites: Machine Learning and Honors Theory of Probability.

CSCI-SHU 378

Introduction to Cryptography

Provides an introduction to the principles and practice of cryptography and its application to network security. Topics include symmetric-key encryption (block ciphers, modes of operations, AES), message authentication (pseudorandom functions, CBC-MAC), public-key encryption (RSA, ElGamal), digital signatures (RSA, Fiat-Shamir), authentication applications (identification, zero-knowledge), and others, time permitting. Prerequisite: CSCI-220.

CSCI-SHU 410

Software Engineering

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. This course satisfies: Major: CS Electives.

CSCI-SHU 420

Computer Science Senior Project

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. This course satisfies: Major: CS Required.

CSCI-SHU 997

Independent Study

Prerequisite: permission of the department. Does not satisfy the major elective requirement. 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.

CSCI-SHU 2314

Discrete Mathematics

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 Prerequisite: MATH-SHU 131 or MATH-SHU 201. This course satisfies: Major: Honors MATH Mathematics Electives, MATH Mathematics Electives, CS Required, Data Science Concentration in CS, CE Required.

CENG-SHU 201

Digital Logic

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. This course satisfies: Core Curriculum: Programming and Computational Thinking; Major: CS Electives, CE Required, EE Required.

CENG-SHU 202

Computer Architecture

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 microarchitectures Multi-cycle microarchitectures 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. This course satisfies: Major: CS Required, Data Science Concentration in CS, CE Required.

CENG-SHU 352

Emerging Technologies for Smart Cities

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.

CENG-SHU 400

Senior Capstone Design Project I

Prerequisite: Senior Standing.

CENG-SHU 401

Senior Capstone Design Project II

Prerequisite: CENG-400

Computer Systems Engineering

CCCF-SHU 101W1

Perspectives on Humanities: Beyond Nature

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 the 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.

CCCF-SHU 101W3

Perspectives on Humanities: Tales of Gender and Power

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.

CCCF-SHU 101W11

Perspectives on the Humanities: American Superheroes

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.

CCCF-SHU 101W16

Perspectives on the Humanities: Brutes, Monsters, Ghosts, and Other Troubling Creatures

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 in 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, comic books, films, 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 Honoré de Balzac's castrato in "Sarrasine," the Yeti in Hergé's *Tintin in Tibet*, the poltergeist in Sarah Waters's *The Little Stranger*, and the shape-shifting animals in Angela Carter's fairy tales. Primary assignments for this course will be analytical essays, including one with a research component, and a final presentation.

CCCF-SHU 101W17

Perspectives on the Humanities: Go West!

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.

CCCF-SHU 101W19

Perspectives on the Humanities: The Truth is out There?

How do we represent 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 represent these events may include painful content.

CCCF-SHU 101W20

Perspectives on the Humanities: The Question of the Anthropocene

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.

CCCF-SHU 101W21

Perspectives on the Humanities: Sino-Western Literary Exchanges

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.

CCCF-SHU 101W22

Perspectives on the Humanities: Networked Bodies: Exhibits, Organ Donations, and Alternate States of Ability

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.

CCCF-SHU 101W23

Perspectives on the Humanities: Sexual Cultures of Modernity

Sexuality is often seen as an innate part of our most intimate selves. We tend to think of it as a personal and intractable force, one beyond the touch of time and place. In the last few decades, however, scholars of sexuality have argued the opposite. Sexuality, they claim, is not simply a matter of biology but of history and culture. In this course, we'll turn our attention to sexual modernity in order to understand and assess these ideas about sexuality's contingency. Taking a comparative approach, we'll read a variety of writers, from disciplines such as

history, philosophy, and literary studies, who address questions of international sexual modernity. We'll also engage with primary texts such as novels and films that represent LGBTQ identities and women's sexuality. Students will learn to use various perspectives to reflect on these cultural productions and think critically about the meaning of modernity and the globalization of sexuality. The 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 an independent research project.

CCCC-SHU 101W24

Perspectives on the Humanities: Medicine and Disease in the Humanities

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.

CCCC-SHU 101W25

Perspectives on the Humanities: Everything You Know About Science Is Wrong

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, ranging from nineteenth-century scientific racism in the US to "traditional Chinese medicine" in the early PRC to contemporary global climate change discourse. Drawing from work such as Kapil Raj's *Relocating Modern Science*, the class will explore debates about the origins and circulation of scientific modernity. Did "modern science" originate in the West and spread "like a virus"? We will focus especially on questions of identity and representation in the making of scientific cultures. For instance, how have different ideas about gender shaped historical and present-day 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.

CCCC-SHU 101W26

Perspectives on the Humanities: Comparative Islamic Feminisms in World Literature

This course extends writing skills and concepts learned in Writing as Inquiry, focusing on a literary, cultural, historical and theoretical understanding of Muslim women's experiences in a transnational and global network of societies and politics. We will examine Muslim women's relationships with Islam—Islamic practice, habits, rituals, culture and customs—in postcolonial fiction. Within a broad regional and thematic foci we will emphasize the transnational nature of Muslim women's engagements with Islam as protagonists in this fiction travel outside their homelands and reside in diasporic communities. We will analyze the negotiations of gender roles, gender constructions and gender consciousness in a variety of situations in foreign cultures with their personal faith; aspects of the foreign culture they are able to reconcile with and ones they find difficult to adapt to, among other questions that help us understand Muslim women's spiritual experiences transnationally.

CCCC-SHU 128

Contemporary Art & New Media

Over the past three decades, the contemporary art scene in China has expanded fast. The massive political, economic, and social changes the country has undergone since the end of the Cultural Revolution in 1976 have dramatically altered its cultural landscape. The course will survey the main development areas in Chinese contemporary art. Dedicated to responding to the new textures of China's metropolitan culture, it will look at the relationship between visual arts, new media, architecture and performance in the mega-city of Shanghai, often regarded as the cradle of Chinese modernity. The class will be complemented by guest lectures and visits to public museums, galleries and artists' studios in and around Shanghai. Students will have the opportunity to meet leading figures from the art world in China as well as the international art community, including artists, museum directors, curators, art critics, and art dealers. Prerequisite: None.

CCCC-SHU 133

Journalism and Society in China

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.

Core Curriculum

EXPERIMENTAL DISCOVERY IN THE NATURAL WORLD

CCEX-SHU 119

Microbes

Microbes are tiny organisms that are found on every imaginable surface and habitat. Some microbes are essential to a healthy life; others cause infectious diseases in plants and animals, and contribute to chronic diseases and conditions, such as cancer and environmentally-related diseases. To understand our delicate and complex relationship with different forms of microbes, scientists have looked at DNA for clues about the origin of our relationship, developing tools to help with diagnostic tests, and the development of treatments and prevention methods. This information raises various social, ethical, and political questions about how we use our knowledge of microbes. In this course students will learn the fundamentals of the biological molecules that comprise the cell, and through a hands-on research project, students will identify the local microbes through the information found in their DNA. Identifying what microbes are present provides the class with a unique opportunity to understand the possible roles these microbes have in society and discuss how microbes positively and negatively affect the various policy options that are relevant to the social dilemmas that science has brought forth.

CCEX-SHU 203

Energy and the Environment

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.

The courses in this category emphasize the impact of science on society as well as cultural and historical reactions to scientific discovery. They focus on pressing world issues and current technology addressed by the natural sciences and mathematics.

CCST-SHU 132

Topics: Creativity Considered

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.

CCST-SHU 141

Innovation in/of Daily Spaces

How does a physical world -- its objects, spaces, textures, infrastructures -- circumscribe one's life -- his mental growth, working paces, leisure time, practical decisions? This course is designed for college students who are interested in learning about innovative designs through thinking, tooling, presenting and experimenting -- in the context of "daily space." Students: No design background needed for this course. Please note that the course does NOT aim at exclusive design topics or technical training purposes. It is a comprehensive study that mixes in-class lectures with hands-on workshops, and enhances frontier research with low-tech (for example, ordinary objects) and intuitional experiences. Fresh comers will get a hands-on and fun introduction to the design world. Already design-minded students will benefit from its innovative and comprehensive approach. Prerequisites: None.

CCST-SHU 142

Environment Connections: Water, Waste, and Wellness

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." Prerequisite: None.

CCSF-SHU 101L

Global Perspectives on Society

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.

CCSF-SHU 122

Traditional Chinese Wisdom and Its Transformation in Modern Times

This course will give a brief survey of Chinese philosophy from the pre-Qin period to the present in the perspective of world philosophy. To capture the quintessence of traditional Chinese wisdom, we will focus on three most influential schools of thought in ancient China, namely, Confucianism, Taoism and Buddhism. We will delineate the evolution of Confucianism from Confucius to Neo-Confucianism in Song and Ming dynasties, distinguish Taoism as philosophy from Taoism as religion, and examine the process of sinicization of Buddhism, taking Zen Buddhism as a paradigm case. In modern times, against the background of the exchange between the Chinese and the Western cultures, traditional Chinese wisdom, through the creative work of modern Chinese thinkers, obtained a new lease of life. Under the heading of the modernization of traditional Chinese wisdom, we will examine three most prominent schools in the 20th century Chinese philosophy, namely, contemporary Neo-Confucianism, Tsinghua school of realism (the Chinese analytic philosophy), and Chinese Marxism. Students are required to read the assigned texts before each class and actively participate in class discussions. Prerequisite: None.

CCSF-SHU 123

Contemporary Chinese Political Thought (formerly China’s Political Thought in the Post-Maoist Era)

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. Prerequisite: None.

JOUR-SHU 9202

Methods and Practice: Journalism

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: None.

LWSO-SHU 9251

Tpcs in Law & Society: Law Culture and Politics in China

In its remarkable rise, China studies the world. But, in applying lessons from abroad, China often modifies them to reflect China’s own cultural values and traditions, as they have evolved over millennia. In Beijing and Shanghai as well as Washington and New York, officials, experts, and students use the same global vernacular of “governance” to discuss approaches to pressing public problems. Students in either country will hear terms (often in English) such as rule of law, democracy, transparency, environmental sustainability, and CSR (corporate social responsibility.) But the practical meanings of such terms are shaped by what might be called different “operating systems.” This course will seek to provide students with basic “vocabulary” (words, concepts and frameworks) of history, political, legal and economic systems needed to begin to “translate” between American and Chinese governance systems. To do so, the course will draw on the diverse backgrounds of NYU Shanghai students, and students’ daily experiences as students in at NYU Shanghai. We hope to learn about China (and the US), but also to reflect—in the light of 911, the 2008 global economic crisis, the explosion of social media and cyberissues, and climate change—on the ways in which NYU Shanghai students may learn how to navigate and help address the 21st century’s core challenges.

SCA-SHU 9634

Global Connections: Shanghai

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.

ECON-SHU 1

Principles to Macroeconomics

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.

ECON-SHU 2

Principles of Microeconomics

Focuses on individual economic decision-makers—households, business firms, and government agencies—and how they are linked together. The emphasis is on decision making by households and firms and how these decisions shape our economic life. Explores the different environments in which businesses sell their products, hire workers, and raise funds to expand their operations; the economic effects of trade between nations; and the effects of various government policies, such as minimum-wage legislation, rent controls, antitrust laws, and more. Prerequisite: MATH-SHU 131 or 201.

ECON-SHU 3

Microeconomics

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 (MATH-SHU 121, 131 or 201)

ECON-SHU 5

Math for Econ 1: Optimization (formerly Math for Economists)

Elements of calculus and linear algebra are important to the study of economics. This class is designed to provide the appropriate tools to complement study of intermediate and advanced economic theory. Examples and motivation are drawn from important topics in economics. Topics covered include derivatives of functions of one and several variables; interpretations of the derivatives; convexity; constrained and unconstrained optimization; series, including geometric and Taylor series; matrix algebra; and (possibly) eigenvalues.

ECON-SHU 10

Intermediate Microeconomics

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: Principles of Microeconomics or Microeconomics.

ECON-SHU 201

Mathematics for Economists

This course explores applications of calculus to basic differential equations and functions of several variables, which arise in virtually all fields of applied mathematics including Economics. Topics addressed include first and second-order differential equations, surface and line integrals, divergence, gradient, curl, and the theorems of Gauss, Green, and Stokes. Prerequisite: MATH-131.

ECON-SHU 202

Intermediate Microeconomics

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-1 or Economics of Global Business (ECON major).

ECON-SHU 210

Topics in Macroeconomics: Market Design

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 builds 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.

**ECON-SHU 215
Economic History**

This course introduces students to a broad set of important economic history topics. The period covers the Middle Ages to the 20th century, and the geographic coverage is globally wide. More focus is given to Britain and Northwestern Europe because that is where economic growth first occurred, but US, Asia, Latin America, and Africa are also included. The course is designed so that students with a particular interest in one topic area can focus their attention in that area, while still being exposed to a broader set of research. It is designed to This course has several objectives: the first is to give students essential background in the historical context for modern economic development through time. Secondly, it shows how theoretical approaches and quantitative tools can be applied to historical evidence. The third objective is to introduce students to research and paper writing in economic history and other applied fields of economics. Pre-req Principles of Macroeconomics or Economics of Global Business or Co-req Principles of Macroeconomics or Economics of Global Business.

**ECON-SHU 216
Introduction to Game Theory**

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. Prerequisites: Calc (MATH-SHU 131 OR 201)

**ECON-SHU 225
Advanced Economic Theory**

Designed to introduce students to some of the main model-building techniques that have been developed by microeconomists. Intended for advanced undergraduates who have taken the necessary preparatory courses in economics and mathematics. Any of the following three basic topics may be covered. The first topic is the static theory of consumer behavior both in a certain world and in an uncertain world, including game theory. The second topic is the theory of general equilibrium. The third topic is the theory of dynamic optimization. In addition to the coverage of the economics, the advanced mathematical techniques that are needed to understand the material are reviewed. Prerequisites: Intermediate Micro AND (Math for Econ 1 OR Multivariate Calculus).

**ECON-SHU 238
History of Modern Economic Growth: Exploring China From a Comparative Perspective**

This course has two goals: 1) to provide understanding of economic development with applications to Chinese economy and Chinese institutions, and (2) to learn how to analyze major policies in China's economic development in both oral and written form. Since the economic reform in 1978 from a planned economy toward a market-oriented economy, China has experienced rapid institutional changes and achieved high growth rates. We will start with the historical background of this transition process. We will then cover post-reform topics such as economic reform, the One Child Policy, political economy, media and internet control, labor market, migration and discrimination, environment and China in the global economy. Our collection of readings are from the exciting yet still growing literature on economic development of China. In particular, you will learn what's possible, interesting and convincing in empirical research on China. Prerequisite: ECON-SHU 3.

**ECON-SHU 251
Economics of Global Business**

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. Prerequisites: ECON-SHU 3.

**ECON-SHU 260
International Trade**

This course will cover the basics of international trade theory and policy. It will introduce students to the main theoretical concepts in international trade, ranging from the Ricardian comparative advantage theory to the new trade theory under imperfect competition. Using the tools of microeconomic analysis, this course will explore the patterns of trade among countries, policies that impede or promote free trade as well as their welfare and distributional implications. Prerequisite: Introductory Microeconomics.

**ECON-SHU 301
Econometrics**

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. Prerequisite: 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).

ECON-SHU 315

Competitive Analysis

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

ECON-SHU 317

The Economics of Discrimination

This research-focused seminar course will first cover applied microeconometrics 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. Prerequisites: Econometrics (ECON-SHU 301) AND Microeconomics (ECON SHU 2 or 3).

ECON-SHU 335

Development Economics

This course focuses on the understanding of the process of economic development. The course will be structured around the following four questions: (1) Why are some countries much poorer than others? (2) What are the main barriers to the process of economic development? (3) What are the main barriers that prevent the poor to escape from poverty? and (4) Why do these barriers exist and persist? The first half of the semester is focusing on the macro perspective in understanding the economic development. We start from laying down the framework in order to understand the mechanics behind the economic growth. The second half of the semester is focusing on the micro perspective in understanding the development at the individual level. We will cover various topics, including land and labour market, education, health, finance, firms, technology, taxation, corruption and public service delivery. This course combines theory and empirics but maintains a strong applied focus. Under each theme, we will derive testable implications from the theory, subject these predictions to econometric testing, comment on the robustness of the results obtained, and seek to draw policy conclusions. Most classes focus on one or two applied papers and an exercise that asks you to explore these questions on your own. Prerequisites: Microeconomics, Principles of Macroeconomics, and Econometrics.

ECON-SHU 342

Behavioral Economics

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 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.

ECON-SHU 360

Experimental Economics

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.

ECON-SHU 400

Economics Capstone Seminar

Open to Senior Economics Majors Only.

ECON-SHU 416

Game Theory: Advanced Applications

This course introduces games of incomplete information and the applications. The first half of the course will review the basic theories, including normal form games, extensive form games, iterated dominance, and Nash equilibrium, with a focus on games with incomplete information. The second half will go through different topics and case studies of incomplete information, e.g. contract theory, auction, social learning, matching, etc. Students will acquire the basic concepts of these theories, and be able to model real-world situations with the language of game theory. Prerequisites: ECON-SHU 10 Intermediate Microeconomics (or students who took ECON-SHU 216, Introduction to

Game Theory, may be admitted upon consultation with the instructor).

BPEP-SHU 9042

The Political Economy of East Asia

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: Upperclass standing, with priority to Stern BPE Students.

EENG-SHU 251

Circuits

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-131 or MATH- 201.

EENG-SHU 400

Senior Capstone Design Project I

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.

EENG-SHU 401

Senior Capstone Design Project II

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: EENG-400.

EAP-SHU 100A

English for Academic Purposes: Science in the Public Sphere

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.

EAP-SHU 100B

English for Academic Purposes: Where do we go from here?

This freshman EAP course is designed to help develop your academic speaking, listening, reading and writing skills in English. At the same time, as a content-based EAP course, it will aim to help you better understand, discuss, and apply some key concepts from social science and philosophy. Specifically, this course will examine a distinction many have made in the Twentieth and Twenty-first Centuries (and earlier) between two ways of knowing and living that human beings exhibit. These two ways are summed up in the course's title as 1) Massification (a.k.a. objectification, alienation, dehumanization) and 2) Humanization (a.k.a. authenticity, critical consciousness, liberation). To examine this theme, the course will be further divided into four parts: (1) To begin, we will explore and discuss theories regarding how human beings psychologically & socially construct knowledge/reality. (2) We will then go on to apply these concepts in order to examine a critical feature of our modern world, namely how it is shaped by consumerism/materialism. (3) This will, in turn, lead us to examine the social, environmental, psychological effects consumerism is having on our world and ourselves. (4) This will finally lead us to examine some fundamental, philosophical questions human beings have asked for ages, such as: What is happiness and how can it be attained? How can one live a meaningful life at this time? How can we improve our society (locally, national and globally)? As you engage with this content, you will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—you will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100C

English for Academic Purposes: Cities and Urban Consciousness

Cities and Urban Consciousness aims to develop students' speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. While all four language modalities will be practiced, there is a special focus on speaking and listening. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected 'unquantifiables' as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student's learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100D

English for Academic Purposes: The Corporation and the Individual

In this English for Academic Purposes seminar, we will develop speaking, listening, writing, and reading skills while exploring the relationship between the corporation, or business organization, and the individual. The root of the word "corporation" is "corps" or "body," and this body has become a complex being in the 21st century. How is it like and not like an individual? What is its obligation to its human parts and what obligation do those human parts have to the whole? In a time of globalization, those human parts are in motion and the borders of the body itself have become more fluid, less narrowly defined. What new models of this "body" are emerging? How is it positioned (or not) to meet the demands of the developing century? Are there parallels to this "body" in nature itself? Who are traditional "insiders" and "outsiders" and how might such roles be reimagined? As we interrogate the role of innovation and creative problem-solving in a business setting, we will apply such principles to our own work in the classroom and evaluate their impact. What lessons can be learned or new models explored? As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100E

English for Academic Purposes: Consumerism, Alienation, and Human Happiness

This freshman English for Academic Purposes (EAP) course is designed to help you develop the speaking, listening,

reading, writing and critical thinking skills you need to study successfully in an English-speaking university. Since it is a thematic, content-based EAP course, it also aims to assist you to develop and apply your understandings of certain concepts from social science and the humanities that are important to a well-rounded liberal arts education. Specifically, this course will explore what some regard as an unprecedented, global crisis humanity seems to be facing, a crisis arising from the influences of consumerism and materialism on modern society and culture. We will further examine what it may mean to live a meaningful life at this time in history, and what some keys to creating a more sustainable and happier future might be. As students engage with this content, they will practice high-level language, communication and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100F

English for Academic Purposes: Business and Social Responsibility

In this seminar, we will develop speaking, listening, reading, and writing skills while investigating business organizations. In particular, we will look at businesses and their responsibilities to the cities and communities in which they operate. Increasingly, businesses are viewed as being accountable to their communities—to the environment, to their workforces and to the cities and towns that house their headquarters and factories. Some now believe that social problems, in both developing and developed countries, are on a scale that governments and non-profit organizations cannot address alone. They argue that only businesses have the resources to address these problems and that there needs to be an “evolution” in capitalism...an evolution in business goals and practices that will help create sustainable and livable cities, i.e., cities in which people desire to live as well as work. We will begin the course by looking at different business models and new concepts in capitalism. We will then look specifically at Shanghai and the role that businesses and other types of organizations play in addressing the many social problems that a city such as Shanghai faces. There will be an emphasis on both creative and critical thinking as we ask questions, analyze problems and come up with our own solutions. As students engage with this content, they will practice high-level language, communication and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100F

English for Academic Purposes: Business in the 21st Century

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 role of business organizations in what some call the “post-modern period,” or the 21st century. As technology develops and both social and environmental needs evolve, what role does business play in society? What role should it play? What are current business trends in the west? In China? What are current narratives (cultural, historical, personal) about business and how do such narratives shape business practices themselves? In this course, there will be an emphasis on both creative and critical thinking as we ask questions, analyze problems and come up with our own solutions.

ENGL-SHU 100G

English for Academic Purposes: Negotiating Self and Other

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 experimental 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. 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. 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 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.

EAP-SHU 100H

English for Academic Purposes: Smart Cities/Smart Lifestyles

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.

EAP-SHU 100I

English for Academic Purposes: Understanding the News

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.

EAP-SHU 100J

English for Academic Purposes: What's So Funny? Taking Humor Seriously

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.

EAP-SHU 100Q

English for Academic Purposes: Cultivating Minds

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.

English for Academic Purposes: Digital Identities

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.

English for Academic Purposes: (Un)Sustainability

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 SDG’s 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.

English for Academic Purposes: Science in the Public Sphere

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. In the fall semester, you will complete a variety of communicative tasks, reflective writing assignments and the planning and preparation for an experiential learning project that will be carried out in the spring semester. 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. The spring semester will be a continuation of this theme and with further development of language, communication, and critical thinking goals. This 2 credit version of EAP: Science in the Public Sphere is intended for Science majors.

English for Academic Purposes: Cities and Urban Consciousness - Part I

Part I of two sections: Cities and Urban Consciousness aims to develop students’ speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. While all four language modalities will be practiced, there is a special focus on speaking and listening. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected ‘unquantifiables’ as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student’s learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 10053 (formerly 10151)

English for Academic Purposes: Storying Science: How the Narratives of Science Have Changed

The objective of this seminar is for students to develop and practice academic speaking, listening, reading, and writing skills that will enable them to engage in discourse about how we view science as a discipline. We will explore the history of scientific rhetoric by investigating two co-dependent narrative arcs in the “story” of science: the way scientists write/talk/think in scientific discourse, and the way we write/talk/think about science and scientists. For centuries, science bore little resemblance to the empirical discipline that we recognize today, yet, while modern science has claimed the language and tools of objectivity, it is wrong to believe that it is free of argument, controversy, and bias. We will consider how science emerged from philosophy, advanced, and adjusted its methodology through ages of renaissance, enlightenment, industrialization, and global expansionism, and usurped religion as the ultimate authority on the “great” questions of life along the way. We will discuss the genres of science writing, science in media and digital science, and debate questions of ethics and popularization. In parallel, we will look at the ways in which science and scientists have been portrayed in popular culture, literature and the visual arts, and equally, how a desire to appear “scientific” has influenced everything from literary theory to advertising. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 100T

English for Academic Purposes: The Greater Good

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.

EAP-SHU 100U

English for Academic Purposes: Money Stuff

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.

EAP-SHU 101A

English for Academic Purposes: Storying Science – Advanced

The objective of this seminar is for students to develop and practice academic speaking, listening, reading, and writing skills that will enable them to engage in discourse about how we view science as a discipline. We will explore the history of scientific rhetoric by investigating two co-dependent narrative arcs in the “story” of science: the way scientists write/talk/think in scientific discourse, and the way we write/talk/think about science and scientists. For centuries, science bore little resemblance to the empirical discipline that we recognize today, yet, while modern science has claimed the language and tools of objectivity, it is wrong to believe that it is free of argument, controversy, and bias. We will consider how science emerged from philosophy, advanced, and adjusted its methodology through ages of renaissance, enlightenment, industrialization, and global expansionism, and usurped religion as the ultimate authority on the “great” questions of life along the way. We will discuss the genres of science writing, science in media and digital science, and debate questions of ethics and popularization. In parallel, we will look at the ways in which science and scientists have been portrayed in popular culture, literature and the visual

arts, and equally, how a desire to appear “scientific” has influenced everything from literary theory to advertising. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101A

English for Academic Purposes: Ethical Considerations in Science and Technology

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. Prerequisite EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101B

English for Academic Purposes: Where do we go from here? Massification vs. Humanization – Advanced

This freshman EAP course is designed to help develop your academic speaking, listening, reading and writing skills in English. At the same time, as a content-based EAP course, it will aim to help you better understand, discuss, and apply some key concepts from social science and philosophy. Specifically, this course will examine a distinction many have made in the Twentieth and Twenty-first Centuries (and earlier) between two ways of knowing and living that human beings exhibit. These two ways are summed up in the course's title as 1) Massification (a.k.a. objectification, alienation, dehumanization) and 2) Humanization (a.k.a. authenticity, critical consciousness, liberation). To examine this theme, the course will be further divided into four parts: (1) To begin, we will explore and discuss theories regarding how human beings psychologically & socially construct knowledge/reality. (2) We will then go on to apply these concepts in order to examine a critical feature of our modern world, namely how it is shaped by consumerism/materialism. (3) This will, in turn, lead us to examine the social, environmental, psychological effects consumerism is having on our world and ourselves. (4) This will finally lead us to examine some fundamental, philosophical questions human beings have asked for ages, such as: What is happiness and how can it be attained? How can one live a meaningful life at this time? How can we improve our society (locally, national and globally)? As you engage with this content, you will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—you will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101C

English for Academic Purposes: Negotiating Self and Other – Advanced

This seminar is meant to develop English for academic purposes literacy in all four language modalities (speaking, listening, reading, and writing) by exploring an interdisciplinary theme that, while grounded in the social sciences, also cuts across the humanities, especially philosophy. 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 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 development, and material and consumer identities. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101D

The Corporation and the Individual

In this English for Academic Purposes seminar, we will develop speaking, listening, writing, and reading skills while exploring the relationship between the corporation, or business organization, and the individual. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. The root of the word “corporation” is “corps” or “body,” and this body has become a complex being in the 21st century. How is it like and not like an individual? What is its obligation to its human parts and what obligation do those human parts have to the whole? In a time of globalization, those human parts are in motion and the borders of the body itself have become more fluid, less narrowly defined. What new models of this “body” are emerging? How is it positioned (or not) to meet the demands of the developing century? Are there parallels to this “body” in nature itself? Who are traditional “insiders” and “outsiders” and how might

such roles be reimaged? As we interrogate the role of innovation and creative problem-solving in a business setting, we will apply such principles to our own work in the classroom and evaluate their impact. What lessons can be learned or new models explored? As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101E

Cities and Urban Consciousness

Cities and Urban Consciousness aims to develop students' speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected 'unquantifiables' as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student's learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101G

Intercultural Communication

Part of the mission of NYU-Shanghai is to enable students to 'immerse themselves in English, the language of international communication' as well as 'master the skills of cross-cultural effectiveness.' These are perhaps the most important goals that students can set for themselves in today's global world where people from disparate cultures must come together to solve the big problems of the age. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. 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." At the core of the course is the idea that language and culture are inseparable. Linguistic competence itself is not enough for successful communication in a diverse multicultural world. Students will be engaged to conceptualize and practice intercultural communication and etiquette that is both verbal and non-verbal, question assumptions they have about "normal" communication, and develop the ability to perceive and communicate from multiple intercultural points-of-view. They will also be prompted to develop their own set of intercultural values in light of what they have learned. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting, with an emphasis on speaking and listening. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 101Q

English for Academic Purposes: Digital Identities in Modern Public Spheres

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. 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. Prerequisites: EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101R

English for Academic Purposes: (Un)Sustainability

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. 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. Prerequisite: EAP-SHU 100 (cannot take same topic/instructor as 100)

EAP-SHU 101T

English for Academic Purposes: The Greater Good

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 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: EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101U

English for Academic Purposes: Money Stuff

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 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: EAP-SHU 100 (cannot take same topic/instructor as 100).

EAP-SHU 101S2

Cities and Urban Consciousness

Cities and Urban Consciousness aims to develop students' speaking, listening, reading, and writing skills while at the same time engendering an intuitive sense of the city. Instead of lectures delivering factual knowledge, the course relies on the mutually enriching interaction between knowing, understanding, thinking and feeling to achieve as comprehensive a sense of urban reality as possible. As this is a 101-level EAP seminar, students will be expected to show greater control of academic speaking and listening and greater autonomy over the learning process than they did in the 100-level seminar. Students will be expected to facilitate seminar discussions and deliver mid-length presentations. The emphasis is on sensibility and communicating sensibility, encouraging the much-neglected 'unquantifiables' as a legitimate area of enquiry, as capable of contributing to research as any other. The course draws on and replicates the lived urban experience in the student's learning, straddling the Humanities, Social Science and STEM. As students engage with this content, they will practice high-level language, communication, and discourse skills required for the university setting. The EAP Seminar is designed to model a college classroom—students will engage with the content of the course individually and in small groups; in formal and informal writing and speaking assignments; and by participating in group projects—but there will be additional emphasis on refining and expanding English language skills.

EAP-SHU 110 (formerly ART-SHU 110)

English Language Seminar: Intercultural Communication

This short course will provide students with the opportunity to practice their academic English by learning about intercultural communication and etiquette. Students will be engaged to think about 'intercultural variables' and 'communication styles' that involve both verbal and non-verbal communication. Much of the course will include reflection on short case studies of intercultural contact between Chinese and Americans (other cultures may also be considered). Students will be encouraged to question assumptions they have about "normal" communication. They will also be prompted to develop their own set of intercultural values in light of what they have learned. The course will include focused practice in the use of all four language modalities: speaking, listening, writing, and reading.

EAP-SHU 120 (formerly ART-SHU 120)

English Language Seminar: British Literature, 18th Century to the Present

This course will offer a survey of British literature from the eighteenth century to the present, beginning with the Romantic period and ending with postcolonial literature. Students will study the process of canon formation and the writing of literary history, the growing division between popular and high literature, and the representation of imperialism and postcolonialism. Students will develop critical thinking skills and practice English reading and writing skills through class discussion, essay writing, and short weekly writing assignments. Authors will include Jane Austen, William Wordsworth, Lord Alfred Tennyson, Virginia Woolf, and others.

CRWR-SHU 159

Introduction to Creative Writing

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. Prerequisites: 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.

CRWR-SHU 175

Storytelling Strategies

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.

CRWR-SHU 245

Speculative Fictions

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 (and watching a few films), framed by a set of critical texts; 2) research; and 3) frequent writing exercises and assignments, culminating in a semester project. Students 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 to speculative fiction. Students will conduct research necessary to both better understand those texts and their authors' techniques and thinking, and to do work necessary to support their own creative experiments in writing their own speculative fiction and/or critical work (research is a big part of the successful speculative fiction writer's practice). All students will begin their writing process by generating a range of story ideas by way of writing experiments and assignments before committing to a semester project. Once students have settled their semester projects, they will conduct research alongside the drafting of scenes for their final project, with the research helping them understand and begin to build a speculative world. Students will write a focused research paper as well as a creative work — most likely a short story, perhaps an episode of a larger envisioned project — informed and shaped by the research they conduct. Students are welcome to work to incorporate the work they do in this class into IMA or creative writing projects that exceed the scope of this class (so, for instance, IMA students might work to integrate their work for this class into their interactive projects).

CRWR-SHU 246

Illuminating "Life's Foolscap": Intermediate Creative Writing

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.

WRIT-SHU 101

Writing as Inquiry: WI

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.

WRIT-SHU 102

Writing as Inquiry: WI

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.

GCHN-SHU 110

The Concept of China

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. (This may be used as a survey course in the Humanities.)

GCHN-SHU 134

Politics and Aesthetics of New Chinese Documentary: Globalization and Social Transformations

The new Chinese documentary emerged in the 1990s. Prior to that, documentary film in China was exclusively produced and distributed within a state-controlled media system. Paralleling and bearing witness to more than two decades of rapid and large-scale economic and social transformations in China, the new documentary has also transformed itself into a broad DV trend involving an increasingly large number of filmmakers, activists, critics and publics. The course traces a historical trajectory of the movement and pursues discussions on the dynamic relationships between aesthetic experimentations, socio-political exigencies and ethical responsibilities in documentary-making. Screenings address issues of migration, social justice, the environment, and LGBTQ movement, etc. Several filmmakers will visit and discuss their works with the students. There will likely be a couple of field trips to alternative exhibition spaces of independent cinema.

GCHN-SHU 164

The History of the Silk Road

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. Prerequisites: None. (This may be used as a Survey course in the Humanities OR Global China Studies Geographies.)

GCHN-SHU 183

Love and War, Wisdom and Strife: Chinese Poetry in a Global Context

Love and war, wine and song, exile and return, sex and sensuality, adventure and meditation, yearning, struggle, and the peace that may come with deep wisdom: China’s vibrant poetic tradition embodies the human drama and lives on as one of the world’s most profound explorations of what it is to live, love, struggle and seek insight—of the human condition itself. Furthermore, China’s history is one of verse, as its poetic traditions give readers both insight into its civilizational story through the voices of its poets – from soldiers and emperors to proud women and men, from everyday folk and exceptional historical figures to artists and scholars of the highest rank. In short, to come to a real understanding of China—and, especially the aesthetic pleasures of Chinese culture—one must spend time among its poets. This is as true of China in our global age as it is of China’s deep history: English-language translations of China’s poetry are attempts—profoundly beautiful in their own right—to translate something essential about Chinese identity while also striking universal chords. (fulfills Chinese Arts Core Curriculum)

GCHN-SHU 200

Topics in Global China Studies

Check Albert for various relevant topics each semester.

GCHN-SHU 208

Chinese Science Fictions

This course will introduce students to approaches to studying Chinese science fiction (SF) in three different forms: short stories, novels, and movies. We will approach the question of what makes a given story “science fiction” as well as what makes a Chinese SF story “Chinese” besides the passport or first language of its author. We will look at such enduring topics as artificial intelligence, non-human intelligence, the extension of human life, and dystopian futures, and the ways that the demands of art, censorship, and commerce shape their representation in SF. Students will read a handful of British and American SF stories to help introduce the genre before moving into Chinese prose fiction (in English translation) and movies (in Cantonese or Mandarin, with English subtitles). Scholarly analyses of SF as a genre and histories of SF in Mainland China will equip students with analytical frameworks to apply to the fictional texts they encounter both in the syllabus and in their outside reading.

GCHN-SHU 233

Foreign Societies in Classical Chinese Writing

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 Instructor Permission (contact Professor Zhao Lu, lz69@nyu.edu)

GCHN-SHU 234

Dunhuang and Its Global Connections

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? This class focuses on one of the biggest archeological discoveries in the 20th century: Dunhuang. In addition to how Dunhuang was discovered, students explore the main elements that vitalized Dunhuang as a metropolitan city: art, religion, language, literature, and technology. The course further examines the lifelines that brought diverse cultural elements into Dunhuang from China, India, Central Asia, etc. As part of the class, students 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 in order to reconstruct what it was like to live in ancient Dunhuang. Prerequisite: None.

GCHN-SHU 243

Chinese Environmental Studies

As the 21st century began, pundits debated whether, like the 20th, it would also be “America’s century,” whether China’s remarkable economic rise would make it “China’s century,” or, perhaps, one seeing the development of “Chimerica.” At the same time, it was also said that environmental limits to development will be the primary shaper of countries and their fortunes—with China (and India), with huge population and rapid development, and the U.S., with high per capita consumption, as keys to the future of the planet. This course will study China’s environmental challenges and governance in the context of America’s own environmental challenges and governance system, and in the context of the challenges to the two countries as the primary sources of the world’s greenhouse gas emissions. We will consider how developments may shape business, government, and culture, and the ways in which China and America may learn from one another. Prerequisite: None.

GCHN-SHU 252

20th-Century East Asia-U.S. Relations

This is a lecture course focusing on the changing relationship between East Asian countries and the United States in the 20th-century. On the basis of reviewing the early encounters between East Asia and America in the 18th and 19th centuries, this course covers the major political, economic, military, and cultural developments, as well as the dynamics underlying them, that have shaped the confrontation and cooperation between various East Asian countries and the United States in the past 100 years. In particular, this course aims to help students develop a better understanding of how nations with different values, cultural-historical backgrounds, political institutions, and levels of economic development may coexist in today’s world. Prerequisite: None.

GCHN-SHU 255

Eat, Pray Ponder: Chinese Intellectual Culture through the Age

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.

GCHN-SHU 263

Voices from the Margin: Modern Chinese and Sinophone Writers

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. (This may be used as a topic course or literary interpretation in the Humanities.) Prerequisite: None.

GCHN-SHU 264

Chinese Migrant and Diasporic Networks

The history of Chinese emigration spans numerous centuries, continents, and islands. Equally heterogeneous, one should note, are the lived experiences of migrants and their younger generations. In recent decades, ideas like “Chinese transnationalism” and the “rise of China” have gained ground among popular and academic circles East and West; at times, they generate the nervous Exclusion-era imagination of a looming “Asiatic takeover.” Such a fervently growing imagination notwithstanding, this line of discourse and belief suggests a number of persistent problems in the studies of Chinese overseas, or Chinese diaspora: for one, while recognition of a global Chinese presence has taken on renewed importance in recent years, scholarly conversations have been modest and sporadic at best, when it comes to scrutinizing the full spectrum of migrant and diasporic cultures (both in and prior to the twentieth century) beyond the re-iterations of ethnic homogeneity, nationalist sentiments, nostalgia, and cultural alienation. Among the humanists, the failure to address long-term practices of social indigenization, multiethnic networks, and the change of cultural affinities makes our current historical juncture a particularly urgent one for reconsidering the meanings of these globalizing networks and the applicability of “Chinese” to the inherently diverse diasporic articulations. Materials of our study are drawn from multidisciplinary sources, including history, theory, fiction, and visual culture. Students learn to explore the intricate conditions underlying the representations, making, and unmaking of Chinese subjectivities. Some topics of interest include Zheng He’s now 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.

GCHN-SHU 264

Chinese Migrant and Diasporic Networks

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: None. (This may be used as a topic course in the Humanities.)

GCHN-SHU 267

The Cultivated City

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 intellectuals engage with the traditions of cultivation in order to imagine and recreate the future metropolis.

GCHN-SHU 270

Researching Chinese Politics and Society

Examines how various methodologies in the social sciences are used for research about social and political trends in contemporary China. Themes includes understanding the production of information by the Chinese statistical system, understanding how to use this data effectively, the use of mapping / GIS techniques, survey-research and survey experiments, internet research and web-crawling innovations, as well as the analysis of Chinese textual data. Students will actively make use of these approaches for their assignment. Prerequisites: none, but it is desirable to have taken either a math, a statistics or a programming course.

GCHN-SHU 275

Memory Politics in China

From historical television series, to claims of a “5000 year-old culture,” to arguments bolstering territorial claims, in China history seems ubiquitous in contemporary life. In this class, explore the present-day politics of the past in China through film, fiction, music, food, urban sites, and contemporary controversies in the news. Analyze “memory politics” using major theoretical approaches to memory and history: collective memory, psychoanalysis, trauma, nostalgia, and consumption. Place China in global context through case studies on colonialism, world war, and international espionage. Visit and interpret three Shanghai sites: the new Municipal History Museum, an Anti-Japan War memorial park, and a Cultural Revolution restaurant. Produce a portfolio of writing on sites and objects that invoke memory in China and beyond. Prerequisite: None.

GCHN-SHU 283

Reading and Viewing Modern China

This is a bilingual and 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. High competence in Chinese and instructor permission are required to take the course. Prerequisites: Advanced level of Chinese language; Instructor consent required.

GCHN-SHU 290

Topics in Global China Studies

Specific topics vary from semester to semester. Prerequisite: None.

GCHN-SHU 342

The Political Economy of East Asia

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: ECON-3 and SOCS-160.

GCHN-SHU 400

Global China Studies Senior Capstone Seminar I

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. Prerequisite: Senior Standing GCS Major

GCHN-SHU 401

Global China Studies Senior Capstone Seminar II

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. Prerequisite: Senior Standing GCS Major AND completion of GCHN-SHU 400.

RELS-SHU 9270

Religion and Society in China: Ghosts, Gods, Buddhas and Ancestors

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.

HUMN-SHU 168

Penning the Self(ie): Orality, Literacy, Digitality, and the Literary Subject

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 heroine whose story evolves from oral tradition, to written romance, to social media subject. Prerequisite: None

HUMN-SHU 185

Gender and Migration in Islam

This course provides an introduction to the development of gender in Islam as it relates to women's migration and movement across regions. We will analyze fiction narratives, poetry and plays that thematize the experiences of Muslim women as migrants. The migrant condition of women lends deeper insights into historical conditions such as imperialism, globalization, connected with themes like religion and religious beliefs. Prerequisite: GPS or lower-level Humanities Course

HUMN-SHU 200

Topics in Humanities

Check Albert for various relevant topics each semester.

HUMN-SHU 225

Topics in Asia-Pacific History Asia-Pasic History in the 20th Century

This course uses the geographic framework of the "Pacific Rim" to understand the historic connections between Asia and North America during the long 20th century. Traditionally, Asian history and U.S./ North American history have been treated as distinct areas of studies. While there is good reason for distinguishing these fields from one another, there are equally good reasons for looking at the intersection of them. Most importantly, history does not unfold within neat geographic boundaries. People, commerce, ideas, culture have all crisscrossed these geographic borders. To fully understand transnational history, then, we historians must also be willing to abandon tradition. This course examines the emerging historiography on the linkages between Asia and North America. We will pay particular attention to the movement of labor and capital, and to a lesser extent the exchange of ideas and culture. This emphasis on labor and capital reflects my own bias as a historian, and I welcome debate on how we think about the historical forces creating transpacific connections. The secondary themes are changes in identity and citizenship, reconfiguration of family, and the rise of transnational social networks, which are the result of labor and capital circulations. Prerequisites: None.

HUMN-SHU 229

Masters of Asian Cinema

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.

HUMN-SHU 240

Gender, Sexuality, and Culture

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.

HUMN-SHU 366 (formerly 266)

Shanghai Stories

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.

HIST-SHU 126

World History: Part I

This course examines the emergence of world societies and the interactions between them from prehistoric times to about 1450CE. A comprehensive study of specific periods and regions will be followed by an in-depth analysis of primary sources and cross-regional contacts.

HIST-SHU 130

Foundations: What is History?

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.

HIST-SHU 145

Food & Drugs in Chinese History

The goal of this course is to examine Chinese society and culture through the lens of the consumption of food and drugs and to elucidate the central role played at different times by food and drugs in Chinese culture and its representations. We examine the role of food and drugs 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 and drugs, restaurants and catering; famine; imperial dining practices; tobacco smoking; opium smoking, cultivation, and elimination; the Opium Wars; and food, drugs, and identity, including the global association of China with food and with opium.

HIST-SHU 153

History of Modern China Since 1840

This course covers the history of China focusing on the past two centuries and especially the 20th century, when China underwent several major revolutions. We will follow chronologically the development of China starting with the foundation and consolidation of its last major dynasty, the Qing in 1644, moving through the collapse of the dynastic system and the rise of the first Republic of China in 1912, continuing through the Nationalist Revolution of 1927, and ending with discussions of the formation and development of the People's Republic of China since 1949. Large themes that run through the course include the impact of Western colonialism on China, the role of internal rebellions and wars in giving rise to new political and social formations, the impact of Japanese aggression on China's state and society, the Nationalist and Communist Revolutions, and the endurance of the centralized Chinese state. Two excursions to historic sites in Shanghai will reinforce students' knowledge and understanding of the subject matter while also highlighting the important role of Shanghai in modern Chinese history.

HIST-SHU 179

History of Modern China in a Global Context

This course situates changes in China since the 1800s in a world and global context. Through reading primary texts and secondary studies, students will explore how the process of empire-making, global capitalist expansion and anti-capitalist revolutions, and liberalization shaped the social, cultural and political changes in modern China since the 1800s. This course is also designed to help develop skills including identification of primary and secondary sources and critical analysis and evaluation of primary and secondary sources. This is a writing and reading intensive course. Students are expected to learn through careful reading, engaged discussion, and writing/testing assignments. All the readings are in English, and the course presumes no previous knowledge of China. (fulfills NYU Shanghai SSPC Core Curriculum).

HIST-SHU 208

War and Peace: Europe Since 1900

This course will provide a broad introduction to the political, social and cultural history of Europe since 1900. The location of the most violent conflict in human history during the first half of the twentieth century, Europe's postwar development was based on a principle of peace through prosperity and the political ideal of an 'ever closer union'. In recent years, however, the combined economic and migrant crises have put this postwar consensus to a test. Taking the continent's delicate union as its central concern, the seminar will familiarize students with key themes, methods and problems in Modern European History. Structured chronologically, individual sessions will examine European modernity and fin-de-siècle culture; empires and colonialism; the causes, experiences and effects of the First and Second World Wars; the Holocaust; Europe's role in the Global Cold War; the crisis-ridden 1970s; and the crucial question of whether a distinctive European identity has developed over time.

HIST-SHU 225

The Global Space Age

Over the course of the twentieth century the infinite void that surrounds planet Earth has stimulated the human imagination as never before. For several decades, anticipation of human spaceflight was intimately bound with futuristic visions of techno scientific 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 technonationalism, 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.

HIST-SHU 226

5000 Years of Chinese History: Fact or Fiction?

Nowadays, the notion that China looks back on 5,000 years of history seems to be common knowledge. At first one might wonder: what is so special about that? There have been many advanced civilizations in ancient antiquity: Egypt, Babylonia, Greece, the Roman and Aztec empires are but a few examples that immediately spring to mind. On closer inspection, though, it is quite obvious that all of these civilizations have one thing in common: they no longer exist! China and Chinese culture, on the other hand, is still alive and kicking. It is the only civilization on the planet that claims to have developed for five millennia without interruption. But, is this really true? And, more importantly, where exactly does such an assertion come from? These are but two questions this course is going to address. Some readers might dismiss them as quixotic musings of an early China specialist. They would be utterly wrong, however, to assume that these issues have no relevance for modern-day China. Precisely because Chinese culture survived for such a long time many contemporary habits are firmly rooted in ancient traditions, whether we are aware of it or not. Since most of us are largely ignorant of the actual repercussions of China's enduring history, this course ultimately aims at disclosing them. This means that we are going to analyze historiographical records and compare them with archeological evidence. In order to get a sense how history was perceived at various historical stages, we are also going to spend some time with commentators of early Chinese texts. Finally, we will, of course, try to figure out how the practice of historiography and archeology influences the China we all live in – for the moment at least – today.

HIST-SHU 250

China at the Center? An Exploration of Chinese Foreign Relations

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.

HIST-SHU 302

History of Water

While global citizens have long been concerned about conserving and rationing our use of fossil fuels, the same cannot be said for an even more precious resource – water. Only in the last few years have government agencies, NGOs, and the market begun to tackle the problem of dwindling water resources. The current statistics and projections are dire. If we do not come up with new technologies to conserve water and use it more efficiently, more people will be without clean water or enough food. The United Nations estimates that by 2030 as many as 4 billion people will not have access to enough water for their basic needs. During the course of this semester we will read about both contemporary issues that affect us as well as look at the historical context in which these problems developed. We will use case studies as a method for discussing these issues. Case Studies will include: the United States, in particular the American West and New York City; Early Modern Venice and Egypt, and modern day African and China.

HIST-SHU 303

Histories and Politics of Noise

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.

HIST-SHU 312

China Encounters the World

This is a lecture course on China's encounters with the world in the late 19th and 20th centuries. The course analyzes the age-old Chinese "Central Kingdom" self-image and how the image was overturned during modern times in face of Western and Japanese challenges; it explores the Chinese "victim mentality" and its impact on China's modern international experience; it examines China's foreign policy issues in the context of its political, economic, social and cultural developments in broader terms; it also pays special attention to the role of "human agencies" in the shaping of historical processes. 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." Prerequisites: None.

HIST-SHU 313

China Goes Global

The course, combining question-oriented lectures, seminar-style discussions, and interactive reading, examines China's "prolonged rise" by putting it into the larger context of its 20th-century "going global" experience characterized by crises, wars, revolutions and, finally, unprecedented reforms. The course will highlight the tortuous trajectory of the most important bilateral relations of our age—Chinese-American relations—and how and why it has been profoundly related to China's going global experience. It will also explore what driving forces and dynamics has generated China's rise, why it has to be looked upon as a complicated and prolonged process, and what opportunities and challenges it has presented to both China and the 21st-century world, and how they might be dealt with. Prerequisites: None

HIST-SHU 329

Futures of the Twentieth Century

The present is only one possible outcome of the many ways in which it has been imagined in the past. While historians usually do not aim to predict the future, they have become increasingly interested in how societies and cultures projected their development in the past. While such scenarios are often fascinating in themselves, they are of particular historical interest as gauges and indicators of how societies understood themselves and evaluated their then present conditions. Largely chronologically organized, this course explores the future's multifaceted history in twentieth-century Europe and the United States, from the emergence of 'scientifiction' in the 1920s to the 'end of utopia' during the crisis-ridden 1970s. Particular attention will be paid to 'enhancements' of the human body, futuristic technologies (flying cars, time machines, computers) and human habitats (the classless city of tomorrow, underwater settlements, space colonies).

HIST-SHU 341

European Religion from the Reformation to the Enlightenment

European Christendom exploded in the sixteenth century, creating a fragmented and fractious religious landscape that still marks Europe (and Christianity worldwide) to this day. In this undergraduate lecture course, students will examine the significant changes European Christendom experienced between the Protestant and Catholic Reformations through the Enlightenment, and will explore the impact of new religious dogmas, beliefs, practices, and institutions upon the broader order of European politics, society, and culture. The readings, which consist of both primary and secondary sources, will demonstrate that the religious changes in this period shaped not only the thinking of theologians and clergymen, but also affected the everyday lives of people throughout Europe. Furthermore, the course will examine how various denominations of European Christianity participated in Europe's commercial, colonial, and imperial projects in the Americas, Africa, and Asia. Students will thus also consider the interactions, both within and beyond Europe, between European Christianity and other world religions.

LIT-SHU 101

Foundations: What is Literature?

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. Prerequisites: None.

Lit-SHU 200

Topics in Literature

Check Albert for various relevant topics each semester.

LIT-SHU 226

History of Chinese Cinemas

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 film 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. (This may be used as a survey course in the Humanities.)

LIT-SHU 246

Introduction to Gender and Feminism in African Literature

This course introduces students to gender, sexuality and feminism in African literatures. It examines literary expressions of women's social, economic and spiritual experiences in both local and transnational contexts in Africa. Through close readings and literary analyses of a geographically and linguistically diverse selection of established and emergent African fiction, students comparatively analyze literary examples of women's experiences. These experiences are read in light of theoretical concepts on feminism and gender in Africa to understand the intersection of women's experiences with such broader historical and geographical phenomena as imperialism or colonialism and postcolonialism, transnationalism and globalization.

LIT-SHU 253

Comparative Islamic Feminisms

This course provides an advanced understanding of Muslim women's experiences in a transnational and global network of societies and politics. We will examine Muslim women's relationship with Islam—Islamic practice, habits, rituals, culture and customs—in postcolonial fiction. Within a broad regional and thematic foci we will emphasize the transnational nature of Muslim women's engagement with Islam as protagonists in this fiction travel outside their homelands and reside in diasporic communities. We will examine their negotiations of a variety of situations in foreign cultures with their personal faith; aspects of the foreign culture they are able to reconcile with and ones they find difficult to adapt to, among other questions that help us understand Muslim women's spiritual experiences transnationally. Prerequisites: Successful completion of Perspectives on the Humanities.

PHIL-SHU 40

Ethics

Examines fundamental questions of moral philosophy: What are our most basic values, and which of them are specifically moral values? What are the ethical principles, if any, by which we should judge our actions, ourselves, and our lives?

PHIL-SHU 70

Logic

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.

PHIL-SHU 76

Epistemology

Considers questions such as the following: Can I have knowledge of anything outside my own mind—for example, physical objects or other minds? Or is the skeptic's attack on my commonplace claims to know unanswerable? What is knowledge, and how does it differ from belief? Prerequisite: None.

PHIL-SHU 80

Philosophy of Science

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?

PHIL-SHU 91

Philosophy of Biology

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.

PHIL-SHU 105

Introduction to Chinese Philosophy

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. Prerequisites: None

PHIL-SHU 130

Philosophy of Technology: Thinking Machines

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: Students must have completed one full year of study.

PHIL-SHU 150 (formerly HUMN- SHU 203)

Central Problems in Philosophy

Albert: This course is an introduction to the problems and methods of contemporary philosophy. Topics may include: 1. What is the relationship between mind and body? 2. Can belief in the existence of the external world be justified? 3. Are there any good arguments for the existence of God? 4. Can we act freely if everything that we do is determined by laws of nature? 5. Is there a theory of how we ought to live? Prerequisite: None.

PHIL-SHU 200

Topics in Epistemology

Check Albert for various relevant topics each semester.

Interactive Media And Business

IMBX-SHU 101T

Topics in IMB: Life Design

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.

IMBX-SHU 102T

Topics in IMB: Global Experience Design

This course is about designing your global experiences. Students are introduced to design thinking as a practical tool to make the most out of their NYUSH experience and prototype opportunities offered by NYU's Global Network. This course will use rapid prototyping methods to test out academic and career interests, visit global organizations in Shanghai, and meet with leaders with multinational experience. The course will be delivered in a studio setup with in-class design workshops that explore topics such as the purpose of college, educational wayfinding, global perspectives, and innovating on career paradigms.

IMBX-SHU 103T

Topics in IMB: Understanding Financial Technology

"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.

IMBX-SHU 211

Design Thinking (Formerly BUSF-SHU 211)

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: None

IMBX-SHU 232

Entrepreneurship Explored (Formerly 232)

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

INTM-SHU 101 Interaction Lab

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: variables, conditionals, iteration, functions, arrays and objects, will be explored using the Processing programming language. Processing has a simplified syntax and 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 not simply use that which has been provided to them. 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

INTM-SHU 110 Application Lab

Students in this course will be exposed to current trends and provocative topics at the intersection of interactive media and business, and they will be asked to produce project-based responses to the challenges posed to them by guest speakers, through readings, and as a result of critical dialog. User experience design, agile development strategies, rapid prototyping techniques, Web and programming fundamentals, and rapid mobile application development frameworks will be the focus of the first half of the semester. HTML, CSS, and JavaScript (including: variables, conditionals, iteration, functions, arrays, objects and data structures) will be introduced. The role and value of collaboration will be better appreciated as students learn to face the challenges associated with group work. The Arduino microcontroller platform, open source and other emerging business models, Internet of Things (IoT) platforms, and user acceptance testing will be the vehicles for student exploration in the second half. Students will be expected to produce midterm and final projects that combine their newfound understanding of the diverse topics introduced to them. Prerequisites: None

INTM-SHU 120 Communications Lab

In this foundation course, designed to provide students with a framework to effectively communicate through digital means, students will explore the possibilities of digital media by successively producing projects that make use of digital images, audio, video, and the Web. Students learn in a laboratory context of hands-on experimentation, and principles of interpersonal communications, media theory, and human factors will be introduced in readings and investigated through discussion. Students will learn the principles of digital imaging, recording and editing audio and video, and the basics of fundamental web languages HTML, CSS and JavaScript, in order to establish a diverse digital toolkit. Both traditional and experimental outputs, including online and interactive media platforms, will be explored. Weekly assignments, group and independent projects, as well as project reports and documentation will be assigned in each of the core areas of study. Prerequisite: None

INTM-SHU 201T Construction of Authenticity in Contemporary Art

The possibility of truth telling has been challenged and debated throughout the history of art and across various genres. What does it mean to tell the truth in art? How does art cross the boundaries between the real and the fake, truthfulness and misrepresentation? This course will examine social engagement in art and the construction of authenticity in creating works based on trust rather than the truth and will investigate a variety of artistic sources and genres including, but not limited to, propaganda, documentary, video art, public art, and installation art. Students are expected to develop projects demonstrating a comprehensive understanding of the subject. Prerequisite: Interactive Lab, Communication Lab, Application Lab or permission of instructor.

INTM-SHU 202T Media Architecture

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 the media cityscape (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

INTM-SHU 203T Exploring Movement Practices with Physical Computing

People use their bodies in the workplace whether they are dancers or athletes, managers or engineers. Physical well-being, 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. We will also explore the questions above through readings, presentations, knowledge-sharing sessions and review of existing creative projects in this area. If you do parkour, dance, soccer or any other movement practice - you have an opportunity to explore that in depth. Or you could pursue a project around a more stationary physical experience, like sitting on a sofa. Prerequisite: Application Lab, Interaction Lab, Communications Lab, or programming experience.

INTM-SHU 204T

Critical Data and Visualization

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. Each week will include a lecture introducing contemporary theorists, artists, groups, and in-class discussions or exercises. Potentially there will be a guest speaker, too. Topic sections may include surveillance and privacy, data journalism and activism or automation and machine bias. What we cover will be complemented by reading and research assignments.

The other half of the week is a programming lab in which you will learn the fundamentals of web-based data visualization using JavaScript. Programming assignments will allow you to further practice what we learn.

Throughout the semester, you will work on three main visualization projects that are inspired by the theoretical subjects that we cover. The form of these projects will usually be a website. Successful projects feature data visualizations that are both playful as well as effective in conveying information and a reflection that links the practical work to the theoretical learnings. Prerequisite: Interaction Lab, Communications Lab or Application Lab

INTM-SHU 205T

The Artificial: Programming and Planetaryity

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 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 midterm exam and final project/ paper based on topics agreed upon in consultation with the Professor. Prerequisite: Writing as Inquiry.

INTM-SHU 205

What is New Media?

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, corporeal, and artistic contexts. By course's end, students will be able to research, think and write critically about some of the central issues in media theory. Prerequisite: Writing as Inquiry.

INTM-SHU 208D

Realtime Audiovisual Performance Systems

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 realtime 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: None.

INTM-SHU 214

User Experience Design

User Experience Design (UXD) is a design process focused on producing interactive products and systems that provide a high level of satisfaction to users through concern for human factors such as ergonomics, accessibility, and usability. User experiences unfold over time, and can be crafted to an extent, however a user's will and other unpredictable circumstances together shape the final outcome. Students in this class will critique existing projects, products, and services, and learn to create more successful user experiences based on real-world development processes, in addition to the application of industry standard techniques and tools. Students will create design concepts and mockups, develop user personas, wireframes, user experience sketches and flows, and ultimately video prototypes. While UXD principles are most often used to create commercial products such as hardware devices and software applications, the concepts and skills prove equally useful in the development of participatory art and performance projects.

INTM-SHU 215

Machine Learning for New Interfaces

Machine Learning for New Interfaces is an introductory course with the goal of teaching machine learning concepts in an approachable way to students with no prior knowledge. Learning and teaching Machine Learning can be a daunting task. This class seeks to reverse the conventional methods of teaching Machine Learning by applying a more friendly and approachable style, masking the complexity of the concepts and technologies. Students will learn fundamentals of programming first. Then they will use existing machine learning models (pre-trained) and apply them to their own ideas and outputs, similar to the way we utilize physical sensors in Interaction Lab or devices such as Leap Motion and Kinect without a full understanding of its construction or blueprint. Directly experiencing these diverse pre-trained models and techniques, they will apply, step by step, the fundamentals and core concepts of Machine Learning. Throughout the course, students will gain the skills to develop meaningful and effective user interactions. By utilizing diverse methods of motion tracking by the models, they will create innovative and interactive interfaces on the web or mobile platform. Both practical and creative applications are to be investigated as students are challenged to design their own solutions. Prerequisite: Interaction Lab, Communications Lab or Application Lab.

INTM-SHU 216

Unsustainable Fashion

This course encourages students to reflect on the current design practices in the fashion industry and explore the concept of sustainability through the lens of ethnography. This methodology curates an ethical understanding of human-engaged research approach to investigate contemporary design production and consumption practices at a systemic level. As critics of unsustainable practices and enthusiasts for sustainable development, the students will explore factors involved in the business of fashion and approaches to designing solutions through the use of sustainability frameworks for challenges identified as part of their inquiry process. A visit to YiWu, one of the world's major consumer goods manufacturing capitals, would further help in developing an understanding of mass production and consumption practices. The lectures and case studies are aimed to increase critical understanding and awareness of the importance of sustainability not as an individual concept but throughout the lifecycle process. The guest speaker and in-class workshops will facilitate a hands-on approach towards the intended design outcome. This course is a conceptual and production class which will involve a design intervention group project with either a problem solving or awareness raising approach, weekly in-class topic presentations and reading responses.

INTM-SHU 221

Creating Immersive Worlds

This introductory course will focus on building virtual worlds and understanding what makes them compelling experiences for others. Throughout the course, students will become familiar with critical concepts such as play testing and object-oriented programming in addition to developing proficiency in software tools such as Unity (3D game engine), Blender (3D modelling), Adobe Photoshop (texturing) and GitHub (source code control). Students will work in collaborative teams to create interactive virtual worlds.

INTM-SHU 222

Introduction to Robotics

People have long 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. 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. 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. By the end of the course, students will present a short research paper and documentation about their robotic explorations. Prerequisite: Interaction Lab or Communications Lab as prerequisite or co-requisite. Prerequisite or Corequisite: Application Lab, Communications Lab or Interaction Lab

INTM-SHU 223

Programming Design Systems

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: Communications Lab.

INTM-SHU 226

Artificial Intelligence Arts

Over recent years, artificial intelligence creativity and generative machine learning have continued grow and attract much attention among art community. Generative models by Machine Learning have brought up new types of media creation including recent breakthroughs.

INTM-SHU 230

Topics in Computation & Data

Check Albert for various relevant topics each semester.

INTM-SHU 235

Topics in Art & Design

Check Albert for various relevant topics each semester.

INTM-SHU 235A

Topics in Art & Design: Exhibition Next

What is an exhibition in a museum of today and how should it be experienced? What is its role in society? How does it engage the audience of tomorrow? This class will explore how emerging technologies can be applied to museum and exhibition design to enhance a museum visitors' experience. Class discussions will include topics and themes such as curatorial practices, public space, content and form, audience and environment, meaningful interfaces and interactive experiences in a museum context. The course will begin with visiting and immersing students in various museums, art spaces, and exhibitions in Shanghai. Students will explore and research on the functions of a museum as an institution to public audiences. Through museum visits, students will write observations of each trip based on their own experience to design a "better" museum or exhibition as their final project. Students will work in a team or individually to design their own exhibition through the design process of submitting a museum proposal, building a demonstrated diorama and writing a museum manifesto, etc. By the end of the course, students will install and present their work in various mediums. Prerequisite: None.

INTM-SHU 236

Topics in Art & Design Design & Fab. Everyday Things

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 behaviour 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. The overall goal of this course is to help students be an active part of the design process. Through use cases, design critique and in class workshops, students will build a fundamental understanding of design and through in-class tutorials, live demonstrations and access to digital fabrication tools, students will be able to realise their ideas into tangible, tactile objects based on insight and research. Satisfies: IMA Elective: Art & Design. NYU New York and NYU Abu Dhabi students: please check information from <https://shanghai.nyu.edu/study-away/summer-courses>.

INTM-SHU 238

Toy Design and Prototyping

The emphasis of this class is on designing toys for play and entertainment, however 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. Students will be introduced to the essential concepts in designing toys and they will create their own by utilizing hand-making craft skills and new technologies. This course will equip students with a basic knowledge about various design topics, including: brainstorming; sketching; graphic design; concept development; 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. Prerequisite or Corequisite: Interaction Lab

INTM-SHU 239

Digital Fabrication

Digital Fabrication is the process of using design of 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 or Corequisite: Application Lab, Communications Lab or Interaction Lab

INTM-SHU 241

Creative Learning Design

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 creativity, interactive technologies, user-centered design & engagement, scaffolded learning, creative learning, pedagogies of play and making, and educational entrepreneurship in Chinese contexts will also be explored. The market for creative educational experiences in afterschool settings for youth in China is exploding. For-profit educational service companies are competing and searching for differentiated, learning experiences in music, coding, and creative project based learning that will attract high-paying parents looking for the best supplemental education for their children. 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 music and technology to facilitate creative learning? 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 (e.g. Alibaba's Cloud Valley), local afterschool programs (e.g., Music Lab), and cultural partners (e.g., Shanghai Symphony). Together they will assess the needs and opportunities of partner students and teachers, and engage in a two-stage iterative and 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.

INTM-SHU 245

Topics in Electronics & Physical Computing (2 credits)

Check Albert for various relevant topics each semester.

INTM-SHU 246

Topics in Electronics & Physical Computing (4 credits)

Check Albert for various relevant topics each semester.

INTM-SHU 248

Introduction to Assistive Technology

Assistive technology is a term that includes a wide variety of technologies for people with disabilities. This two-point survey course is designed to provide students with an overview of the field of assistive technology. Field trips, readings, and guest speakers will provide students with an understanding of current research and development as well as processes used in determining appropriate technologies. Weekly assignments and a final research project. Elective Category: Art & Design. Prerequisite: None

INTM-SHU 252

The Minimum Viable Product

Increasing possibilities brought about by emerging forms of technology and decreasing costs of connecting people to things have not only enabled innovative human-centered design, but also opened the door to new business models and products. 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 7 week course, student 'co-founders' will conceive of and produce a new media, physical or technology product designed to delight their customers while also allowing them to accelerate and validate a business model. Students will 'get out of the classroom' and put these products into potential customers' hands. 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: None

INTM-SHU 255

Topics in Business of Emerging Media

Check Albert for various relevant topics each semester.

INTM-SHU 255-002

Programmable Trust: Blockchains.

INTM-SHU 260

Topics in Electronics & Physical Computing.

Check Albert for various relevant topics each semester.

INTM-SHU 260

Topics in Electronics & Physical Computing: Working With Electrons

This course focuses on using existing knowledge about electronics in order to design and fabricate circuits. It will cover technology that is commonly used in consumer electronic. We will have guest lecturers who will bring insights about the local ecosystem in China and that will share the most current techniques, like the flexible printed circuit boards used in wearable devices. Students will first experiment with analog signals, learning from them. In a second section of the course, they will utilize gates to make their own digital logic. The last part of the course will go over the design, simulation and prototyping of circuits. Participants will have by the end of the course all the resources to create their own original circuit in their final project. Their work will be assessed by their documentation blog, online quizzes and a final project. Students will acquire a working knowledge of components like capacitors, diodes, power supplies, transistors and logical gates. At the same time they will become familiar with tools like hot air soldering equipment, oscilloscopes, function generators and techniques used to simulate, design and manufacture circuits. Prerequisite or Corequisite: Interaction Lab.

INTM-SHU 265

Topics in Digital Humanities

Check Albert for various relevant topics each semester.

INTM-SHU 266

Digital Heritage

This course investigates and explores the integration between cultural heritage and digital conservation (de-noise through digital sculpting, laser scanning, photogrammetry, infographics,...etc.), specifically towards the objects, deities, and sites of China. Through the reflection of Chinese cultural heritages under technical perspective, the course raises the awareness of heritage conservation and critical heritage studies. Prerequisite: None

INTM-SHU 267

The Cultivated City

This class examines the religious and philosophical idea and practices of cultivation. It does so by investigating a range of material, including the urban garden traditions of the Jiangnan region, the Buddhascapes of the modern city, Taoist inner alchemy and new Confucian thought. This conceptual analysis is then used as a basis for researching the urban ecology of Shanghai, both as a past and future city. Cultivated City aims to interrogate the nature-culture split. The idea that nature (including human nature) is improved or enhanced by cultivation challenges an entrenched dichotomy, which views nature in its ideal state as wild and unspoilt, and existing in opposition to 'cultural construction'. Instead, the class explores novel ways of integrating the 'natural' and 'urban' environment. Cultivated City combines theory with practice. It uses the tools of interactive media (audio, video and cartographic technologies) to research, map and narrativize the ways in which architects, designers, artists and intellectuals engage with the traditional art and practices of cultivation in order to imagine and recreate the future metropolis. Prerequisite: None.

INTM-SHU 268

Acoustic Ethnography of the Yangtze River Delta

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 them 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 vs. 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 transform it into an analytical or creative project integrating, sound art and text. Prior knowledge to sound editing and Chinese language is not required. Prerequisite: None.

INTM-SHU 271

Remade in China

The global economic system has been producing social inequality, exploitation of cheap labor and incredible amount of waste. China and the United States are listed as the largest economies in the world, as well as the countries that generate most waste. Re-make: make (something) again or differently. In this class students will investigate why China has become 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. Prerequisite: Interaction Lab, Communications Lab, or Application Lab.

INTM-SHU 280

Topics in New Media & Entertainment

Check Albert for various relevant topics each semester.

INTM-SHU 280C

Topics in New Media & Entertainment: VR/AR Fundamentals: A Practical Guide to Big Ideas

Virtual Reality and Augmented Reality represent visions of "immersion" through the use of various channels such as visual, audio, haptic, and even smell and taste (and maybe mind). 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 artform, 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 perspectives. We will overview such basic elements resolution and fidelity; spatiality and immersion; extra 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. In addition to "big ideas," VR / AR Fundamentals aims to contribute to "a practical guide" by collectively producing a series of timely and relevant "studies," all short, entertaining, and useful to others exploring the world of VR / AR. Prerequisite: None.

INTM-SHU 280E

Topics in New Media & Entertainment: Aesthetics for New Realities

A workshop course in which teams of students will develop new works by exploring how new forms of media such as virtual, augmented and mixed reality are platforms for new aesthetic possibilities. Digital cinema, computer games, virtual reality and augmented reality share many common methods in the production of their content, with default assumptions about how they differ from each other. Approaching this as a range of expressive possibility gives a basis for more original and thoughtful approaches, including those that are less defined by existing categories as well as those that are more innovative within categorical norms. New ways of making cinema should lead to new kinds of expressions, while the emergence of virtual reality needs aesthetics that evoke more of its possibilities than the recapitulation of cinematic story-telling or video game interactivity. This class will use an iterative process of ideation and prototyping as it engages and develops the methods of narrative, interactivity, immersion, experience, imagination, spatiality and temporality. Readings and lectures will provide context with the history of art, literature, music. Prerequisite: App Lab, Comm Lab, Inter Lab, Creating Immersive Worlds or AR/VR Fundamentals.

INTM-SHU 283

Locative Media

With the rise of mobile computing platforms such as smartphones and tablets, location has 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 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 investigate geocoding, geotagging, and geofencing through the application of JavaScript mapping platforms, and through 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 then produce as a final project, a game that engages participants in a location or locations physically or technologically. Note: This is an online course featuring both synchronous and asynchronous learning opportunities. Note: This course is an online course. Registration for this course is limited to IMA Majors studying at the Global Sites. Prerequisite: Communications Lab.

INTM-SHU 284

Digital Sculpting for Facial Animation

This 14-week course breaks down into 4 stages : 1. basic topology of head model (student's profile photos as reference), 2. high-poly sculpting and projection texturing, 3. blend shapes animation, 4. final project. In the final project, students get to choose either lip-sync animation or conceptual piece utilizing the created head models. The course covers digital modelling / sculpting techniques including polygonal modelling, digital sculpting and blend-shape facial animation. Overview of digital editing / compositing and sound design will also be introduced to assist with students' final project at the end of the semester. Category: New Media & Entertainment. Prerequisite: None

INTM-SHU 285

Seminar Topics

Check Albert for various relevant topics each semester.

INTM-SHU 287

NIME: New Interfaces in Musical Expression

This course will focus on designing, creating and performing with musical instruments that utilize recent discoveries in interactive media in order to explore the limits of human expression. Over the semester, students are asked to research examples of contemporary work by creators of musical interfaces and discuss a wide range of issues facing technology in the performing arts. Readings and case studies will provide background for class discussions on the theory and practice of designing gestural controllers for musical performance. Students will invent and prototype a complete system encompassing musical control, mapping input to sound, and the creation of sound itself. Interaction Lab is a prerequisite, but prior performing experience is not required. The performance discipline, being an inherently collaborative arena, places heavy emphasis on teamwork. An open mind to work with other artists, technologists and creative leaders is a must. The class will culminate in a performance where students will play their instruments live. Prerequisite: Interaction Lab.

INTM-SHU 288 Kinetic Interfaces

Students in this course will use computer vision and motion tracking tools and techniques to create kinetic interfaces that exploit the body's capacity for movement to control software and hardware systems. The applicability of kinetic interfaces to practical as well as creative applications will be investigated as students are challenged to design their own solutions. Webcams, the Leap Motion Controller and the Microsoft Kinect will all be considered as input devices. Students will be introduced to the topics of pixel manipulation, as well as face, hand, blob and skeletal tracking. And Projection mapping, a technique that turns surfaces within an environment into dynamic display surfaces, will be explored as an output method. New Category: Physical Computing & Experimental Interfaces. Prerequisite: Application Lab, Communications Lab or Interaction Lab.

INTM-SHU 295 Seminar Topics

Check Albert for various relevant topics each semester.

INTM-SHU 400 Capstone Studio I - Interactive Media Arts

Capstone I is the first of two classes that give students the opportunity to research, design, make and test an individual interactive media project. Students will work independently (with faculty guidance) to research and write the first half of a Project Proposal to contextualise their ideas. In addition to this, students will also develop a functional proof of concept of their final project that will be tested with participants and also presented to a group of peers and faculty. Prerequisite: Senior Standing

INTM-SHU 401 Capstone Studio II - Interactive Media Arts

Capstone II is the the second of two classes that give students the opportunity to research, design, make and test an individual interactive media project. Students will work independently (with faculty guidance) to research and write the final half of a Project Proposal. In addition students will build on their existing projects from Capstone I to further develop their work into a final project that will be tested with participants and presented to a group of faculty and peers. Prerequisite: Senior Standing, Completion of Capstone I (INTM-SHU 400)

MATH-SHU 9

Precalculus

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 are also covered. Prerequisite: Placement via NYUSH mathematics placement exam.

MATH-SHU 10

Quantitative Reasoning: 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, proofs, 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. For students in Humanities

MATH-SHU 121

Calculus I

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.

MATH-SHU 131

Calculus

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: Placement via NYU SH mathematics placement exam or a grade of C or better in MATH-SHU 9 (Precalculus).

MATH-SHU 140

Linear Algebra

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 or Co-requisite: Grade of C or better in Math-SHU 131 or 201.

MATH-SHU 141

Honors Linear Algebra I

This is the first semester of a 2-semester course in linear algebra for advanced mathematics majors. Topics covered include systems of linear equations, matrices, LU decomposition, determinants, vector spaces, linear independence, basis and dimension, subspaces and quotient spaces, linear transformations, eigenvalues and eigenvectors, Jordan canonical forms, inner products, orthogonality, quadratic forms, extrema of functions, and symmetric and positive matrices. Prerequisite: Placement on NYU SH mathematics placement exam. Co- or Prerequisite: MATH-SHU 201

MATH-SHU 142

Honors Linear Algebra II

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 of C or better in MATH-SHU 141.

MATH-SHU 151 (formerly 123)

Multivariable Calculus

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 of C or better in MATH-SHU 131. E

Networks and Dynamics

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 of C or better in MATH-SHU 131 OR 201 and MATH-SHU 140.

Honors Calculus

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: Placement via NYU SH Mathematics Placement Examination or MATH-SHU 131 Calculus with a grade of A- or better.

Honors Theory of Probability

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 approximations, random variables, probability distributions, generating functions, and Markov chains and their applications. Prerequisite: Grade of C or better in MATH-SHU 123 (Multivariable Calculus) and 140 (Linear Algebra). Not open to students who have taken MATH-SHU 235 (Probability and Statistics).

Mathematics of Statistics and Data Science Part 1

This course is the first part of an introduction to the mathematical tools of modern statistical analysis and of data-science. This class asks for a good prior understanding of probability theory, of calculus and of linear algebra. In this first part, we will cover the core concepts of statistics, both from the Bayesian and the classical or frequentist point of views. We will use the book by Larry Wasserman "All of Statistics". We will assume that Part I on Probability is known (Chapters 1 to 5), and cover Part II on Statistical Inference, and some of Part III on Statistical Models and Methods, i.e. the Bootstrap, Parametric Inference, Bayesian inference, Hypothesis testing, Statistical Decision Theory, Linear and Logistic Regression, and possibly a light introduction to Graphical Models and Classification. This class should be followed by a second class in the Spring 2019 centered on some of the mathematical questions raised by the high-dimensional aspects of statistics and data science, and in particular by machine learning. Prerequisite: Grade of B or better in MATH-SHU 151 (Multivariable Calculus), 140 (Linear Algebra) and 233 (Theory of Probability).

Probability and Statistics

This course comprises a combination of the theory of probability 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: Grade of C or better in MATH-SHU 131 (Calculus). Not open to students who have taken MATH-SHU 233 (Theory of Probability).

Mathematics of Statistics and Data Science Part 2

This course is the second part and continuation of an introduction to the mathematical tools of modern statistical analysis and of data-science. Pre-requisite: MATH-SHU 234 or Instructor Permission.

Mathematical Choice Theory

This course is a mathematical examination of the main ideas of decision theory, including game, auction, and social choice theory. Topics covered include strategic and extensive form games, existence and properties of equilibria (Nash, Bayesian, perfect, sequential, correlated), the expected utility maximization theorem, the core, auction and mechanism design under independent and interdependent values, the revenue equivalence theorem, voting models, Arrow's impossibility theorem, the Gibbard-Satterthwaite theorem, and implementation theory. We also discuss current applications of these ideas to bargaining agreements, auction design, and voting systems. Prerequisite: MATH-SHU 131 Calculus or 210 Honors Calculus. Not open to students who have taken MATH-SHU 233

Honors Theory of Probability and/or MATH-UA 234 Mathematical Statistics.

MATH-SHU 250

Mathematics of Finance

This course is an introduction to the mathematics of finance. Topics covered include bonds, interest rates and present value, options and contracts, arbitrage and replication, binomial models, conditional expectations and design of European options, stopping times and American options, random walks and Brownian motion, log-normal model of stock prices, Black-Scholes price formula, Ito integrals and stochastic differential equations, Black-Scholes theory. Prerequisite: MATH-SHU 123 (Multivariable Calculus) and 233 (Theory of Probability) or 235 (Probability and Statistics).

MATH-SHU 251

Introduction to Math Modeling

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. Prerequisites: Multivariable Calculus with a grade of C or better or permission of the instructor.

MATH-SHU 252

Numerical Analysis

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 of C or better in MATH-SHU 151 and MATH-SHU 140, or MATH-SHU 141 and MATH-SHU 329.

MATH-SHU 262

Ordinary Differential Equations

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 of C or better in MATH-SHU 131 and 140 or MATH-SHU 141 and 201.

MATH-SHU 263

Partial Differential Equations

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 of C or better in MATH-SHU 262 or 362.

MATH-SHU 265

Linear Algebra and Differential Equations

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. Prerequisites: Calculus OR Honors Calculus OR Multivariable Calculus.

MATH-SHU 282

Functions of a Complex Variable

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 continuations, and applications to fluid flow. Prerequisite: Grade of C or better in MATH-SHU 123 and MATH-SHU 140, or MATH-SHU 141 and MATH-SHU 329.

MATH-SHU 328 (formerly 202)

Honors Analysis I

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 of C or better in MATH-SHU 201.

MATH-SHU 329 (formerly 203)

Honors Analysis II

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 C or better in MATH-SHU 328 Honors Analysis I and MATH-141 (Honors Linear Algebra I).

MATH-SHU 345

Introduction to Stochastic Processes

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. Prerequisites: MATH-140 linear algebra and MATH-SHU 233 Honors Theory of Probability.

MATH-SHU 362

Honors Ordinary Differential Equations

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 of C or better in MATH-SHU 131 (Calculus) and 140 (Linear Algebra) or MATH-SHU 141 (Honors Linear Algebra I) and 201 (Honors Calculus).

MATH-SHU 377

Differential Geometry

This course investigates the differential properties of curves and surfaces. Topics covered include differential manifolds, tangent bundle, vector fields, differential forms, Stoke's theorem, Riemannian geometry, geodesics, and the exponential map. Prerequisite: MATH-SHU 329 (Honors Analysis II).

This course investigates the differential properties of curves and surfaces. Topics covered include differential manifolds and Riemannian geometry. Prerequisite: Grade of C or better in MATH-SHU 329.

MATH-SHU 997

Independent Study

Mathematics 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.

NEUR-SHU 10

Free Will and the Brain

"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: None.

NEUR-SHU 100

Math Tools for Life Sciences

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: BIOL-SHU 22 (Foundations of Biology II) or permission by the instructor.

NEUR-SHU 201

Introduction to Neural Science

An introductory lecture course covering the fundamental principles of neuroscience. Topics will 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 cerebral cortex; modeling of neural systems. Prerequisite: BIOL-SHU 21 BIOL-SHU 22 Foundations of Biology II

NEUR-SHU 210

Cellular and Molecular Neuroscience

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: CCSC-114 & NEUR-251.

NEUR-SHU 222

Perception

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 COURSES Introduction to Neural Science or Introduction to Psychology. The prerequisite can be waived based on the student's background. Contact the course instructor directly for this request.

NEUR-SHU 251

Behavioral and Integrative Neuroscience

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. Prerequisite: NEUR-SHU 201 (Introduction to Neural Science).

NEUR-SHU 261

Special topics: Neurobiology of Decision Making

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: NEUR-SHU 201 (Introduction to Neural Science) or permission by the instructor.

NEUR-SHU 265

Neural Bases of Speech and Language

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 developmental 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. Prerequisite: None.

NEUR-SHU 270

Introduction to Theoretical Neuroscience

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 1) or permission by the instructor. Graduates: Mathematical Tools for Neural and Cognitive Science (NEUR-GA.2201), or permission by the instructor.

NEUR-SHU 280

Special Topics in Neural Science

A seminar course providing in-depth treatment of an area of current interest neuroscience. Lectures will present background material and address current problems in the area related to the topic. Students will read and discuss review articles and current literature on the topic. Course content will be determined on a semester-by-semester basis. Possible topics include "Decision Making"; "Neurobiology of Learning and Memory"; "Signal Processing in Neural Networks"; "Intro to Computer Modeling of Neuronal Systems"; "Cognitive Neuroscience"; "Can Exercise Change Your Brain?"; "Molecular Mechanisms of Memory"; "Color Vision"; and "Neuroeconomics and Decision-Making." Prerequisite: NEUR-SHU 201 (Introduction to Neural Science) or permission by the instructor.

NEUR-SHU 302

Modeling & Simulations in Neuroscience

This course introduces students in neuroscience, and mathematics to the use of mathematical methods in modeling and computer simulation to investigate phenomena in neuroscience. The course material to be covered is models of electrophysiology of neurons and synapses, neural networks and examples, synaptic plasticity for memory and learning together with computer simulations. Mathematical tools in linear algebra and differential equations, and programming in Matlab is introduced as needed within the course. Prerequisites: NEUR-SHU 100 (Math Tools for Life Sciences) and NEUR-SHU 201 (Introduction to Neural Science). Familiarity with linear algebra, ordinary differential equation, and programming are recommended but not required. Prerequisites: Calculus, Mathematics for the Sciences or Network and Dynamics, or permission by the instructor. Familiarity with linear algebra, ordinary differential equation, and programming are recommended but not required.

NEUR-SHU 305

Special Topics: The Meaning of Natural Language. 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. Prerequisites: 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. (contact Professor Linmin Zhang - linmin.zhang@nyu.edu)

NEUR-SHU 401

Neural Science Honors Seminar

Students attend regular meetings to learn research basics and discuss recent advances in neuroscience and research related issues. Prerequisite: Students must have completed (or enrolled in) all remaining major requirements. Open only to students qualified and having been recommended by the Director of Undergraduate Studies for Neural Science.

NEUR-SHU 997

Independent Study I - Neural Science Capstone

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.

NEUR-SHU 998

Independent Study II - Neural Science

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.

Physics

PHYS-SHU 11

General Physics I

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. Prerequisite OR Co-requisite: MATH-SHU 131 or MATH-SHU 201

PHYS-SHU 12

General Physics II

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: PHYS-SHU 11

PHYS-SHU 71

FoS Physics Laboratory

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. Prerequisite OR Co-requisite: Physics I OR Found of Physics Honors I.

PHYS-SHU 91

Foundations of Physics I Honors

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. Prerequisite OR Co-requisite: MATH-SHU 131 or MATH-SHU 201.

PHYS-SHU 93

Foundations of Physics II Honors

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).

PHYS-SHU 94

Physics II Lab

This laboratory course is to accompany Physics II lecture PHYS-SHU 12. 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: Foundation of Physics I Laboratory (PHYS-SHU 71)

PHYS-SHU 95

Foundations of Physics III Honors

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. Prerequisite: PHYS-SHU 93.

PHYS-SHU 96

Foundations of Physics IV Honors

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. Prerequisite: PHYS-SHU 95.

PHYS-SHU 106

Mathematical Physics

Mathematics is the language of physics. In this course, students will understand the advanced mathematical methods most widely used in physics and extend their skills by practice. On completion, successful students will be able to understand and proficiently use (1) vector and matrix algebra, (2) ordinary and partial differential equations, and (3) functions of complex variables. The lectures serve as an introduction, and the real work of learning starts when you do the homework. 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 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. 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: MATH-SHU 265

PHYS-SHU 200

Optical Imaging: Applications in Biology and Engineering

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. Prerequisites: Physics 2 or Physics 2 for Honors.

PHYS-SHU 201

Topics in Introduction to Quantum Mechanics and Quantum Technology

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: MATH-SHU 131 or MATH-SHU 201

PHYS-SHU 251

Electricity and Magnetism

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. Prerequisite: (CCSC-114 or PHYS-95) & MATH-212.

PHYS-SHU 301

Quantum Mechanics

Designed to provide a rigorous mathematical introduction to quantum mechanics, this course covers the Schrödinger and Heisenberg description of quantum systems, application to basic atomic structure and simple boundary condition problems, quantum statistics, and perturbation theory. Prerequisite: (CCSC-114 or PHYS-95) & MATH-160.

PHYS-SHU 302

Statistical Mechanics and Thermodynamics

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

PHYS-SHU 303

Advanced Physics Laboratory

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: CCSC-114 or PHYS-95.

PHYS-SHU 314

Astrophysics

Introduction to modern astrophysical problems with an emphasis on the physical concepts involved: radio, optical, and X-ray astronomy; stellar structure and evolution; white dwarfs, pulsars, and black holes; and galaxies, quasars,

and cosmology. Prerequisite: PHYS-250.

PHYS-SHU 315

Nuclear and Particle Physics

The phenomenology and experimental foundations of nuclear and particle physics are explored in this course, with emphasis on the fundamental forces underlying particle interactions. Prerequisite: PHYS-250.

PHYS-SHU 997

Independent Study – Physics

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.

PHYS-SHU 998

Integrated Science Capstone

This course provides students with a completion of their undergraduate science education by applying the skills and knowledge they acquired over the course of their major 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: students must have completed (or enrolled in) all remaining major requirements.

PHYS-SHU 999

Physics Research in Shanghai.

CCSC-SHU 130

Introduction to computer programming with Mathematica

Mathematica is a powerful tool for technical computing. It provides a robust computing environment that is used in biology, chemistry, economics, engineering, finance, mathematics, physics, the arts, and a wide range of other fields. It is designed for symbolic as well as numerical calculations, and for visualization of technical information. Mathematica can change forever both what we teach and learn in the classroom, and how we teach and learn it. To provide students with the very best education possible, we need to bring it into our classrooms. The goal of this course is to empower students in the sciences, engineering, economics, finance, and even in the arts and humanities, to use symbolic and numeric computation, and thereby give them a tool (and a leg up) that they can use throughout their whole professional carrier. The course will include the following topics: A brief introduction to computer science and numerical methods, Mathematica as a sophisticated symbolic and numeric calculator, Wolfram Alpha – a computational database, programming in Mathematica and the concepts behind the language. Procedural programming, functional programming and rule based programming, parallel computing using multiple cores, dynamic interfaces (animation), precision and accuracy, working with units, vectors, matrices, calculus, differential equations, difference (recurrence) equations, optimization methods, image and video processing, audio processing, finance and economics applications, and software development. Students will complete a project that they will choose from within their own areas of interest.

SOCS-SHU 133

Urbanization in China

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.

SOCS-SHU 135

Environment and Society

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.

SOCS-SHU 136

Human Society and Culture

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. Prerequisite: None.

SOCS-SHU 141

Methods of Social Research

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. Prerequisite: None.

SOCS-SHU 150

Introduction to Comparative Politics

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. Prerequisite: None.

SOCS-SHU 160

Introduction to International Politics

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. Prerequisite: None.

SOCS-SHU 170

Introduction to Global Health

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. Prerequisite: None.

SOCS-SHU 185

The Relationship Between Government and Religion

This course examines the relationship between government and religion. To this end, the course concentrates on the interpretation, meaning, application, and wisdom of 16 words from the American Constitution: "Government shall make no law respecting an establishment of religion or prohibiting the free exercise thereof." These 16 words serve as a starting point for the course because they broadly prohibit government entanglement with religion while simultaneously bestowing government with the responsibility to protect religious freedom. The primary texts of the course are the opinions of the United States Supreme Court, the highest Court in the United States, and final authority on interpretations of the Constitution. Prior knowledge of the subject matter or the United States is not a prerequisite for this class. Application required.

SOCS-SHU 200

Topics in Social Science

Check Albert for various relevant topics each semester.

SOCS-SHU 210

Statistics for The Behavioral Sciences

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.

SOCS-SHU 230

Science in Environmental Policy

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.

SOCS-SHU 229

Capitalism, Socialism, Communism: Theory and Practice

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. Prerequisite: Successful completion of GPS, or instructor's permission.

SOCS-SHU 232

International Law and Institutions

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. Prerequisite: SOCS-SHU 150 or 160.

SOCS-SHU 234

Image as Evidence

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.

SOCS-SHU 235

Global Perspectives on Migration and Ethnicity

Migration, both internationally and internally, has continually shaped notions of ethnicity in nearly every context in the world. Focusing on contemporary migration in China and immigration post-1960s in the US, as well as education as a facet of social mobility, this course serves as an introduction to different theoretical and empirical scholarship on migration and ethnicity. Topics include migrant adaptation/assimilation, social mobility, and the shifting construction of racial and ethnic categories.

SOCS-SHU 241

Cultures of Business and Work

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.

SOCS-SHU 245

Ethnographic Thinking

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. Prerequisite: None.

SOCS-SHU 248

Fraud

Scientific misconduct is valuable because it tells us something about the norms and values of scientific inquiry over time. When scientists make things up or act badly, it says as much about our collective expectations of and sensibilities about scientific practice as it does the personal shortcomings of a small set of actors. The course allows students to examine instances of fabrication, falsification, and plagiarism through a diverse set of case studies. The aim is to unravel the motivations and impacts of fraud, to better appreciate methodological and evidentiary practices even or especially when they go awry, and to consider how wrongdoing shapes perceptions of science in popular culture. The course uses a broad approach to the social study of science to interrogate primary and secondary sources in each case of scientific misconduct. Prerequisite: None.

SOCS-SHU 252

Ethics and Global Governance

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.

SOCS-SHU 253

Nature in Social Thought

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. Prerequisite: Successful completion of GPS, or instructor's permission.

SOCS-SHU 270

Social Change in Contemporary China

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: Successful completion of GPS, or instructor's permission.

SOCS-SHU 272

The U.S. Constitution: Is It relevant to China?

This course covers some basic political concepts and legal doctrines lying at the foundation of 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.

SOCS-SHU 275

US-China Relations

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: SOCS-SHU 160 is recommended, but not required.

SOCS-SHU 300

Topics in Social Science

Check Albert for various relevant topics each semester.

SOCS-SHU 300C

Topics in Law and Politics

Check Albert for various relevant topics each semester.

SOCS-SHU 306

Pestilence: Critical Perspectives in Global Health

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. Prerequisites: None.

SOCS-SHU 318

Ethnographic Methods

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. Prerequisites: None.

SOCS-SHU 319

Visual Anthropology

This seminar introduces students to the field of visual anthropology via both theoretical and practical approaches. Students gain basic skills of analyzing and producing visual ethnography to enhance their social science research toolbox. Class readings and discussions begin with foundational issues of the intricate relationship between visuality, epistemology, and politics, and then extend into reflections over the crucial ethical questions about the author's authority as well as reciprocity with the subjects. Through close readings of landmark film works in the field we delve into analysis of formalistic elements that are used to construct ethnographic films, in addition to getting a historical overview of their evolution. Students develop the skills necessary to engage in discussions of critical theoretical issues in the field, and work in groups to produce a short ethnographic film as a final project.

SOCS-SHU 331

Politics in China

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.

SOCS-SHU 333

Global Environmental Politics

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. Prerequisite: It is recommended, but not required, that students take SOCS-SHU 135 Environment and Society prior to enrolling in this course.

SOCS-SHU 334

Legal Psychology

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. Prerequisite: PSYC-SHU 101 Introduction to Psychology is a prerequisite for the course. This can be waived by the instructor for individual students based on background and preparation.

SOCS-SHU 339

Comparative Revolutions

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.

SOCS-SHU 340

Comparative Constitutions

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: SOCS-SHU 160 (Introduction to International Politics) or SOCS-SHU 150 (Introduction to Comparative Politics) or SOCS-SHU 272 (US Constitution—Is It Relevant to China?), or comparable courses relating to law or politics at other NYU sites, or equivalent preparation, or with instructor's permission.

SOCS-SHU 341

Cross-Strait Relations

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. Prerequisites: SOCS-SHU 150 Introduction to Comparative Politics or SOCS-SHU 160 Introduction to International Politics or GCHN-SHU 110 The Concept of China.

SOCS-SHU 350

Empirical Research Practice

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. Prerequisites: Intro to Psych OR Environment & Society OR Intro to Comparative Politics OR Intro to International Politics (Intro to Psych recommended).

PSYC-SHU 352

Psychology of Human Sexuality

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. Prerequisite: PSYC-SHU 101 Introduction to Psychology.

SOCS-SHU 360

Urban Sociology

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: SOCS-SHU 141 or SOCS-SHU 210 or SOCS-SHU 248 or SOCS-SHU 318 or SOCS-SHU 350 or instructor's permission.

SOCS-SHU 400

Topics in Social Policy

Check Albert for various relevant topics each semester.

SOCS-SHU 401

Social Science Capstone Seminar (4 credits)

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. Open only to Social Science majors in the senior year.

SOCS-SHU 410

Social Science Capstone Honors Seminar (2 credits)

This seminar prepares candidates for major honors in Social Science to enroll in the Honors Independent Study in the spring semester of the senior year. In this seminar, students develop a research question, select a methodological approach, assemble a working bibliography, and identify a faculty supervisor for the spring semester independent study. Open only to seniors who have been admitted to honors candidacy in Social Science.

SOCS-SHU 411

Social Science Honors Independent Study

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.

SOCS-SHU 420

Topics in Environmental Studies

Check Albert for various relevant topics each semester.

SOCS-SHU 421

Topics in Applied Air Quality Research

This independent study course provides students with an opportunity to work with Dr. Kevin Cromar on applied air quality research projects. Potential projects cover a wide range of disciplines including economics, computer science, electrical engineering systems, epidemiology, public health, policy analysis, graphic design, marketing, and environmental studies. Students are able to work in teams or individually based on interests and assigned project. No previous research experience is needed and successful students will have the opportunity for continued research opportunities with the Marron Institute at NYU. All projects will be part of ongoing research efforts at the Air Quality Program directed by Dr. Cromar. Interested students should contact the professor for more information.

SOCS-SHU 426

Poverty and Inequality Around the Globe

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. We consider philosophies of global justice and the ethics of global citizenship, and students are expected to critically reflect upon their own engagements with poverty relief activities and aspirations for social changes. Students should be prepared to tackle advanced social science readings, analysis, and writing. Open to seniors, and to other students with instructor's permission. There are no prerequisites for the class although students should be prepared to tackle advanced social science readings and analysis.

SOCS-SHU 430

Capstone Seminar: China and Politics

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.

SOCS-SHU 431

Capstone Seminar: Politics, Political Economy, and International Relations

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.

SOCS-SHU 432

Capstone Seminar: Psychology and Global Health

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.

SOCS-SHU 440

Topics in Anthropology

Check Albert for various relevant topics each semester.

SOCS-SHU 445

Topics in Society, Health & Medicine

Check Albert for various relevant topics each semester.

SOCS-SHU 460

Topics in Urban Studies

Check Albert for various relevant topics each semester.

SOCS-SHU 997

Independent Study

Check Albert for instructions.

PSYC-SHU 101

Introduction to Psychology

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.

PSYC-SHU 201

Social Psychology

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 Introduction to Psychology

PSYC-SHU 234

Developmental Psychology

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.

PSYC-SHU 329

Parenting and Culture

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.

PSYC-SHU 337

Adolescent Development

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, and PSYC-SHU 234 as a pre- or co-requisite.

PSYC-SHU 349

Cultures of Psychology

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.

PSYC-SHU 352

Psychology of Human Sexuality

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. Prerequisite: PSYC-SHU 101.

CHIN-SHU 10

Chinese Bridge Online-Elementary Level

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.

CHIN-SHU 20

Chinese Bridge Online-Intermediate level

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 if students fulfill the attendance requirement and homework requirement.

CHIN-SHU 101

Elementary Chinese I

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.

CHIN-SHU 101S

Elementary Chinese I - FoS1

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.

CHIN-SHU 101S2

Elementary Chinese I – FoS 2

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 102

Elementary Chinese II

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-101.

CHIN-SHU 102S

Elementary Chinese II FoS

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-101 or 101S2.

CHIN-SHU 102S2

Elementary Chinese II FoS 2

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 111

Elementary Chinese I for Advanced Beginners

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: N/A. This course is followed by Intermediate for Advanced Beginners.

CHIN-SHU 201

Intermediate Chinese I

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-102.

CHIN-SHU 201A

Intermediate Chinese I - Accelerated

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-102 or 102A; Co-requisite: CHIN-SHU 202A.

CHIN-SHU 201S1

Intermediate Chinese I - FoS1

This course is a specially-designed 2-credit intermediate-level Chinese course for students enrolled in Foundations of Science who have completed Elementary II. It covers the first half of the 4-credit Intermediate I course. Prerequisite: CHIN-102.

CHIN-SHU 201S2

Intermediate Chinese I – FoS2

This course is a specially-designed 2-credit intermediate-level Chinese course for students enrolled in Foundations of Science who have completed Intermediate I FoS1. It covers the second half of the 4-credit Intermediate I course. Prerequisite: CHIN-201S1.

CHIN-SHU 202

Intermediate Chinese II

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-201.

CHIN-SHU 202A

Intermediate Chinese II - Accelerated

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-201A.

CHIN-SHU 211

Intermediate Chinese I for Advanced Beginners

This course is designed for students 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-111 Elementary Chinese for Advanced Beginners. This course is followed by Advanced Chinese I.

CHIN-SHU 221

Chinese Immersion Program: Intermediate I

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 series talks, local visits, Chinese cultural classes, movie evenings, Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules or requirements. 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.

CHIN-SHU 222

Chinese Immersion Program: Intermediate II

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 series talks, local visits, Chinese cultural classes, movie evenings Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules or requirements. 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.

CHIN-SHU 301

Advanced Chinese I

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. Prerequisite: In addition to CHIN-202 OR CHIN-211.

CHIN-SHU 302

Advanced Chinese II

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. Prerequisite: CHIN-301.

CHIN-SHU 321

Chinese Immersion Program: Advanced I

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.

CHIN-SHU 322

Chinese Immersion Program: Advanced II

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.

CHIN-SHU 401

Classical Chinese I

This course is designed to give students an introduction to basic syntax, grammar, and vocabulary of Classical Chinese through close readings of authentic texts. Almost all these texts are historically significant canon texts that are extremely rich in classical Chinese cultural connotation. They are selected from a wide variety of genres, such as historical literature, philosophical and political writings, written correspondence, poetry, essay, some of which are unique to Chinese culture. The course aims to develop the students' reading and comprehension skills in this highly stylized form of written Chinese, acquaint students not only with the classic Chinese cultural heritage but also underlying working mechanism that is in many ways relevant to the form and usage of today's Mandarin Chinese. Prerequisite: CHIN-302.

CHIN-SHU 402

Classical Chinese II

This course continues the work begun in Classical Chinese I with the goal that students be able to read with reasonable facility original texts, included unpunctuated ones, from a wide variety of genres, including historical literature, philosophical and political writings, written correspondence, poetry, essays and official documents.

Prerequisite: CHIN-401.

CHIN-SHU 403

Readings in Chinese Culture I

Chinese language at fourth-year level. Designed to enhance Chinese proficiency through studying authentic materials rich in cultural connotations, focusing primarily on reading and writing. Objectives are: to develop language skills needed for semi-formal and formal presentation on academic topics; to further improve reading comprehension and develop skills needed to conduct textual analysis of passages with sophisticated syntax and semantic nuance; to develop responsiveness to and ability to interpret stylized usage; to advance strategies for autonomous learning of Chinese language from an analytical perspective. For the first part of this year-long sequence, reading materials will generally be selected from China's modern period (1919–1949). Prerequisite CHIN-302.

CHIN-SHU 404

Readings in Chinese Culture II

Designed to enhance Chinese proficiency through reading authentic materials rich in cultural connotations. Stresses primarily reading and writing. The objectives are: to develop speaking skills needed for semi-formal or formal presentation on academic topics; to develop specialized vocabulary; to further improve reading speed and develop skills needed to conduct textual analysis on and, on some occasions, translate texts with syntactical sophistication and stylistic nuance; to develop responsiveness to and ability to interpret linguistic features of different genres and writing styles; to advance strategies for autonomous learning of Chinese from an analytical perspective. Continuation of Chinese language at fourth-year level, with reading materials generally selected from contemporary sources. Prerequisite: CHIN-302.

CHIN-SHU 405

Reading Chinese Newspapers

This 4-credit course is a post-advanced Chinese language course, which meets twice a week, 90 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. Prerequisites: Advanced Chinese II or the equivalent.

CHIN-SHU 411

Introduction to Business Chinese and Culture

This course is designed for those who have studied Mandarin to the advanced level (or equivalent). It aims to continuously improve students' Chinese proficiency while, at the same time, preparing them for working more comfortably and confidently in a Chinese business environment. In recent years, along with the rapid growth of Chinese economy, issues on Chinese business and economy became a hot topic. To address this trend, authentic Chinese sources will be introduced in class to enhance students' professional Chinese and their understanding of China's macro and micro business environments as well as the past, present, and future of China and its role in the global economy. An approach placing more emphasis on case study is adopted along with task-based language teaching. The course will cover the first five chapters of the textbook which is developed surrounding five real-life business cases. These five companies are all multinational that have successfully operated in China by adapting their strategies to the special needs of the Chinese market. By reading, discussing, and performing communicative tasks related to those cases, students will learn how to use Chinese as a "carrier of culture", thus acquiring a better understanding of China in economic and, broadly defined, cultural terms. The case study will also inspire students to explore the Chinese consumers' interest and mentality, so that they will occupy a more qualified position to explore a successful road toward "doing business within China." For students who are interested in pursuing career opportunities in Mainland China or Hong Kong, the course will teach the proper ways to compose a Chinese resume while, at the same time, introducing related job interview skills. By the end of the semester, students are expected to: (1) expand business vocabulary and strengthen the communication skills in real business settings; (2) enhance the cultural awareness about China and the Chinese business world; (3) improve listening comprehension of authentic Chinese media materials; (4) improve reading, writing and translation skills of business terminologies and documents; (5) be able to use Chinese language software for certain business purposes. Class will be conducted in Chinese. Prerequisite: CHIN-301 and Instructor's permission CHIN-302.

CHIN-SHU 415

Introduction to Contemporary China I

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-302.

CHIN-SHU 416

Introduction to Contemporary China II

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-302. This course fulfills GCS Elective for Non-native Chinese Speaker.

CHIN-SHU 429

Chinese Business and Finance -- A Bilingual Introduction

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: Instructor Consent Required

CHIN-SHU 430

Discovering Contemporary China through Documentary Films

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.

CHIN-SHU 9000

Introduction to Conversational Chinese

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, 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. 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.

CHIN-SHU 9002

Introduction to Conversational Chinese--4 Credits

This four-credit language course for Study Away Students only 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

FREN-SHU 10

Intensive Elementary French

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.

FREN-SHU 20

Intensive Intermediate French

Completes the equivalent of a year's intermediate level in one semester. Offered every semester. 6 points.
PREREQS: Intensive Elementary French or Instructor Permission

FREN-SHU 30

French Grammar and Composition

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.

FREN-SHU 110

Business French

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.

JAPN-SHU 5

Elementary Japanese I

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.

JAPN-SHU 10

Elementary Japanese II

Designed for students continuing their introduction to modern spoken and written Japanese, designed to further develop fundamental skills in areas of speaking, listening, reading, and writing. Open to students who have completed JAPN-SHU 5 or the equivalent (EAST-UA 247) and to others on assignment by placement test.

SPAN-SHU 10

Intensive Elementary Spanish

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.

SPAN-SHU 20

Intensive Intermediate Spanish

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. Prerequisites: Intensive Elementary Spanish or Instructor Permission

SPAN-SHU 30

Advanced Spanish Grammar and Composition

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 4), Intensive Intermediate Spanish (SPAN 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)

SPAN-SHU 110

Techniques of Translation

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.

CEL-SHU 10

Community Development & Service-Learning

This zero-credit course is a required component of NYU Shanghai's Dean's Service Scholars program. This course serves as an introduction to issues related to social/community development and community service, and includes a practical community service experience, which will involve visiting one of five service sites during Spring Break (April 2 - 10), and assisting with the work of selected non-governmental organizations (NGOs). Taking a "service-learning" approach, this course integrates the study of topics and concepts with the development of skills relevant to social/community development through practical community service experience and critical reflection on this experience.

CEL-SHU 101

Topics in Service Learning: Migrant Families, Children and Youth in Shanghai

This course is taught in conjunction with students' participation in a weekly service experience (2 hours a week and at least 20 hours in total of service at the site) 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. As such, this course will assist students in understanding the individuals with whom they are working and the social/environmental contexts in which they live through course content and personal reflection on service. Students will learn about internal migration and urbanization in China and resettling migrants in the city of Shanghai. The course will touch on the fundamentals of engaging individuals in a helping situation; theories related to child development; implications of gender, culture and migration; impacts of multiple social contexts: the family, peers, school, social agencies and community; understanding the effects of social oppression on people's lives: poverty, sexism, classism, etc. Students will be expected to do journal writing and will have opportunities in class to share their experience. Class will meet weekly on campus for 75 minutes and students will be required to work for 2 hours/week at a local volunteer center that serves youth from migrant families. Prerequisites: None

CEL-SHU 101A

Topics in Service Learning: Rural Education in China

This program aims to provide a unique summer camp experience for rural primary school students in Songpan County, Sichuan Province while helping NYU Shanghai students learn about rural education and curriculum development and practice leadership, teamwork, and facilitation skills. Songpan County is located in northwest Sichuan Province. It is home to diverse ethnic minority populations, including Hui (Muslim), Tibetan, Qiang, and Han. The program's summer camp, led by NYU Shanghai students, will target 5th & 6th graders and take place at our partner school, Shi Li Primary School. The program provides training to help members make the most of this learning experience and prepare thoroughly for the responsibilities. Readings and workshops help members to learn about rural education, curriculum design, and the socioeconomic conditions of the local area, as well as teamwork skills. Team members will decide on the overall theme of the summer camp based on what they learn and design curriculum suited to the local context.

CEL-SHU 101A

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CEL-SHU 101B

Topics in Service Learning: Community Libraries

This course is a required component of NYU Shanghai's Dean's Service Scholars program in 2018-2019. This course serves as an introduction to issues related to social/community development and community libraries, and includes a practical service experience, which will involve four weekend trips to assist with the work of selected community organizations. Taking a "service-learning" approach, this course integrates the study of topics and concepts with the development of skills relevant to social/community development and critical reflection on this experience. As this is a two-semester program, students who enroll in the fall course are also required to enroll in the corresponding spring course. Pre-requisite: Successful Completion of Chinese Language Intermediate II or equivalent. Instructor permission required.

CEL-SHU 101C

Topics in Service Learning: Assistive Technology

This interdisciplinary project-based class focuses on the design, development, and use of technology that increases the quality of life of individuals with disabilities. Students will be introduced to various assistive technologies and strategies, including no-tech and low-tech as well as software and web-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 constructing a prototype assistive device. Field trips to local facilities will be scheduled which 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 that an individual with disabilities lives with and then create a novel and useful assistive device to meet their needs. Prerequisites or Co-Requsite: INTM-SHU 101 Interaction Lab.

CEL-SHU 101D

Topics in Service Learning: Language and Power

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 their 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). No prerequisites.

CEL-SHU 101E

Topics in Service Learning: Public Science Education in China

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 prerequisites.

CEL-SHU 102

Service Learning with Migrant Families in China

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.

LWSO-SHU 303

Traditional Chinese Political and Legal Philosophy

This is an NYU Law School course that has limited space for qualified upper-class undergraduate students. Students must complete an application to enroll. Applications will be reviewed by NYU Law's Office of Global Programs in collaboration with the relevant faculty members. For instructions on how to enroll, please request an application from shanghai.registrar@nyu.edu. Specific questions regarding the course can be directed to the NYU Law Office of Global Programs at law.globalstudents@nyu.edu. (Though this course is offered by the Law School, it does not count for graduate course credit.) Course Description: 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.

LWSO-SHU 491

International Investment Transactions in Developing Countries: China, Africa, Latin America

This course explores issues frequently encountered by international legal counsel and business executives and government officials in cross-border investment transactions involving developing countries with focus on China, Africa and Latin America. Topics will include: multilateral development institutions and development banks, state owned companies and "state capitalism", government ministries and the approval process, national security review and anti-trust 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. Prerequisites: This is a senior seminar, open to seniors, or to juniors subject to space with instructor's permission.

EXLI-SHU 9301

Experiential Learning I

This course aims to complement and enhance the internship experience. Students will learn to critically examine their fieldwork in order to reflect upon what their particular, concrete experience reveals about life in contemporary Shanghai.

EXLI-SHU 9302

Experiential Learning II

This is a 2nd- semester course aiming to complement and enhance the internship experience. Students will learn to critically examine their fieldwork in order to reflect upon what their particular, concrete experience reveals about life in contemporary Shanghai. Prerequisite: Experiential Learning I

SAS-SHU 100

China in the Headlines

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.

NYU Shanghai Leadership and Faculty

NYU Shanghai has a world class faculty and administration in Shanghai as well as a large cohort of affiliated faculty from across NYU's Global Network. At NYU Shanghai professors are scholars, scientists, and artists who are proven and innovative teachers and leaders of international standing in their fields. They have been appointed because of their commitment to cutting-edge research and engaged teaching methods to build the university of the future, NYU Shanghai.

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