YLC1201 Beginning Chinese 1 (5 MC)
Instructor: Hu Jing
A Beginning Chinese course in listening, speaking, reading, and writing in Modern Standard Chinese. The student will learn pinyin, basic grammar, and a limited set of characters to understand basic everyday conversations and elementary readings. The course is designed for the absolute beginners and intended primarily for non-heritage students with no previous exposure to Chinese.

By the end of the semester, students should be able to:

1. accurately produce tones in Chinese and transcribe words using pinyin;
2. learn how to write approximately 100 Chinese characters
3. produce grammatically correct simple sentences, and ask questions in written and oral form using a good range of vocabulary
4. master basic expressions in Chinese (greetings, asking for directions, times of the day, introducing oneself, etc.)
5. learn how to use a Chinese dictionary and online sources for self-study
6. develop a deeper understanding of the culture and history of Chinese-speaking communities in the world

YLC1202 Beginning Chinese 2 (5 MC)
Instructor: Hu Jing
**Pre-requisite(s):** YLC1201 Beginning Chinese 1 or have equivalent Chinese proficiency. A placement exam may be required.

This module is designed for 1) students who already possess some proficiency in spoken Chinese but no formal education in Chinese; 2) students returning from summer study abroad programs; and 3) non-heritage students with prior coursework in Chinese who wish
to further develop their reading and writing skills in Chinese. Students will take a placement test prior to the beginning of the course.

By the end of the semester, students should be able to:

1. learn about 460 Chinese characters and 400 phrases.
2. produce and understand connected sentences and frequently used expressions related to matters encountered in work, school, leisure, etc.
3. communicate in writing arguments, reasons, and different viewpoints.
4. read short texts in Chinese with the aid of a dictionary and summarise the main points of the materials.

**YLC2201 Intermediate Chinese 1 (5 MC)**
Instructor: Hu Jing

**Pre-requisite(s):** YLC1202 Beginning Chinese 2 or have equivalent Chinese proficiency. A placement exam may be required.

This course is designed for students who completed First year Chinese (two semesters: YLC1201 & 1202) or have equivalent Chinese proficiency. It emphasises the ability to communicate and function accurately and appropriately in Modern Chinese. Students will take a placement test. The course aims to develop students by: (1) acquiring basic knowledge and communicative skills in speaking, listening, reading, and writing Chinese; (2) gaining solid understanding of the cultural and social context of Chinese; (3) developing research skills to understand Chinese texts and culture by using the Chinese character input system and online dictionary, as well as useful online resources.

On successful completion of the course a student should be able to:

1. to develop skills to utilise grammar in speech and writing, with more complex structures
2. to be able to express your thoughts in discussion and narrate a simple story with confidence,
3. to be able to exchange thoughts and gain fluency in conversational communication,
4. to develop basic reading and writing skill for simple essays and stories around 200-300 words,
5. to have a better understanding of Chinese culture and its relationship with the language.
YLG2202 Intermediate Classical Greek (5 MC)
Instructor: Lasticotaki Eleftheri
**Pre-requisite(s):** YLG1201 Beginning Classical Greek or YLG2201 Intensive Elementary Greek or permission of the instructor. A placement exam may be required.

This course is designed to give students a higher reading level by the end of the semester. It offers four days a week of instruction. As well as gaining a familiarity with additional vocabulary and the more complex constructions of ancient Greek – especially those involving optative and subjunctive – students will through their more extensive reading develop an increased cultural knowledge in ancient Greek society and literary/ dramatic production.

On successful completion of the course a student should be able to:

1. Demonstrate increased familiarity with and apply to translation an active vocabulary, and a solid grounding in the more complex grammar and constructions of the ancient language, especially those involving optatives and subjunctives;
2. Read a wider range of short adapted texts and demonstrate familiarity with the cultural and dramatic context of their production;
3. Continue study in the language (Advanced Ancient Greek) or embark on independent linguistic study within other courses with appropriate texts and guidance.

YLL1201 Beginning Latin (5 MC)
Instructor: Steven Green
**Pre-requisite(s):** None

This intensive course offers four days a week of language instruction in Attic Latin for beginners. Instruction will cover the writing systems, vocabulary, and syntax of ancient Roman texts. Students will develop linguistic and cultural knowledge in ancient Mediterranean antiquity, and achieve a basic reading level by the end of the semester.

YLL3201 Advanced Latin (5 MC)
Instructor: Steven Green
**Pre-requisite(s):** YLL1202 Intermediate Latin (formerly titled as “Introduction to Latin 2”) or with permission of the instructor. A placement exam may be required.

This course is designed to give students a familiarity with a fuller range of the more complex grammatical constructions in Latin, and to give them an opportunity to read in a more focused manner specific examples of unadapted ancient Latin texts in the original form. The focus of study will be key texts from the late Republican era (c. 70-30 BC). As well as gaining a deeper understanding of the syntax and grammar of Latin – and a greater awareness that
language is resistant to static ‘rules’ – students will develop an increased cultural knowledge in Roman late Republican society and literary production.

On successful completion of the course a student should be able to:

1. Demonstrate increased familiarity with and apply to translation an active vocabulary, and a solid grounding in the (at times complex) grammar and constructions of the ancient language;

2. Read key unadapted works of Latin prose and poetry from the late Republican era of Rome and appreciate them from both a linguistic and literary/cultural point of view;

3. Embark on independent linguistic study with appropriate texts and guidance.

**YLS1201 Beginning Spanish 1 (5 MC)**
Instructor: Raquel Peña-Gutierrez

*Pre-requisite(s): None*

Spanish 1 is the introductory module to the language and culture of the Hispanic world. This course is designed to help you develop a basic ability to read, write, understand, and speak Spanish as well as to expand students’ cultural competency. Since all linguistic skills cannot be fully developed in Spanish 1 alone, stress will be placed on the acquisition of basic structures, which will be developed and reinforced in subsequent modules.

**YLS1202 Beginning Spanish 2 (5 MC)**
Instructor: Raquel Peña-Gutierrez

*Pre-requisite(s): YLS1201 Introductory Spanish 2 or with permission of the instructor. A placement exam may be required*

This module is a continuation of Introductory Spanish 1. Introductory Spanish 2 pays close attention to aural/oral practice while strengthening basic grammar skills, writing, and reading comprehension. The module covers the second half of the eBook used in Intro 1 and prepares students for Study Abroad opportunities via CIPE in their second summer at Yale-NUS or beyond.
YLS2201 Intermediate Spanish 1 (5 MC)
Instructor: Raquel Peña-Gutierrez
**Pre-requisite(s):** YLS1202 Introductory Spanish 2 or with permission of the instructor. A placement exam may be required.

This module targets students who have completed the introductory Spanish sequence or have had significant experience with the language (e.g., Study Abroad during their first summer at Yale-NUS). It offers a combination of listening and speaking practice with a review of key concepts of Spanish grammar. This module continues to incorporate Hispanic cultural elements and representative texts from the Spanish-speaking world.

YLS3201 Advanced Spanish 1 (5 MC)
Instructor: Eduardo Lage-Otero
**Pre-requisite(s):** YLS2202 Intermediate Spanish 2 or with permission of the instructor. A placement exam may be required.

Students taking this module will build upon the material and topics covered in the introductory and intermediate sequences to expand their command of written and spoken Spanish. Advanced Spanish I will focus on readings and discussions of Spanish and Spanish American culture to continue developing students’ vocabulary while reinforcing complex grammar and syntax. This module will also focus on accurate written production with attention paid to stylistics, genre, and voice, while reviewing more advanced and nuanced grammatical points.

On successful completion of the course a student should be able:

1. To understand and analyse a wide variety of reading and listening selections in Spanish;
2. To produce complex language in written and oral form using a wide range of vocabulary and accurate grammatical structures when responding to different prompts (asking for directions, narrating in the past, expressing desires, etc.);
3. To show a nuanced understanding of Spanish grammar, particularly of its more subtle grammatical points; and
4. To demonstrate a deeper understanding of the culture, history, and politics of Spanish-speaking countries.
YHU1212 Introduction to Fiction Writing (5 MC)
Instructor: Robin Hemley

Pre-requisite(s): None

This course will introduce students to the practice of writing fiction, primarily the short story. Students will learn about character development, scene, setting, dialogue and other important elements. Weekly exercises and readings will form a foundation from which students can build their understanding of the craft of fiction.

On successful completion of the course a student should be able to understand the elements of fiction and be able to write a short story that demonstrates this understanding with a good degree of sophistication.

YHU2201 Religions of Abraham (5 MC)
Instructor: Anne Kreps

Pre-requisite(s): Completion Satisfactory for YCC1111 Literature and Humanities 1 and YCC1113 Philosophy and Political Thought 1

This course introduces the history, textual traditions, and diverse practises of Abrahamic religions: Judaism, Christianity and Islam. Students will learn methods in intellectual the historical study of religion. Understanding these religious traditions provides context for further study in history, literature and art, culture and politics. This course emphasizes the diversity within each tradition and identifies intellectual exchanges that took place across traditions. The course covers the historical period from the Babylonian exile through the Umayyid dynasty. Emphasis will be placed on how ancient authors "read" the past-through their midrashim, homilies and hadith-to build the belief and ritual structures of religious life.

By the end of the course, students will be able to narrate the early history of three world religions; identify various sources available to historians of Abrahamic religions; ask historical questions of religious texts; describe beliefs and practices of Judaism, Christianity and Islam. In this course students will improve their abilities to: read an ancient text closely; weigh the value of a source; assemble evidence into a coherent narrative; discuss religion in an informed, secular manner.
Students can take Religions of Abraham as an introductory history course that counts towards the History major. History majors will acquire content knowledge of the Near East and gain practice in writing intellectual and cultural histories. Other humanities majors will find this course useful for the introduction to major themes and stories continually reworked in literature and the arts. They will also learn how ancient artists and writers reworked these themes and stories through our study of ancient commentaries and art. For global affairs and other social science majors, this course provides historical context to modern conflicts.

**YHU2202 Introduction to Creative Nonfiction (5 MC)**

Instructor: Heidi Stalla  
**Pre-requisite(s): None**

Creative nonfiction, a form of creative writing that often borrows from fiction and poetry in terms of technique, differs in that notions of factuality define the boundaries of the form. This course explores the literary essay in the fashion of the great French essayist, Michel de Montaigne, focusing primarily on the personal essay. While primarily a writing course, there will be significant supplemental reading. Essayists to be read will range from the Roman Seneca (“On Noise”) to the 101 Century Japanese Sei Shonagan and plenty of contemporary essays. There will be weekly writing assignments as well as reading.

Students will know a good deal of the history of the essay by the end of the course and will be able to distinguish between various forms of creative nonfiction, including the personal essay, the lyric essay, the biographical sketch, and so on. They will also hone their writing and critiquing skills through the revision process, and will learn to read for technique, reading as a writer, not only as a scholar. Regardless of their path through college, students need to learn to write originally and with technical ability. This course will provide ample opportunities to do both.

**YHU2205 Integrative Music Theory 1 (5 MC)**

Instructor: Nirmali Fenn  
**Pre-requisite(s): None**

Integrative Music Theory is a comprehensive introduction to musicianship and musical understanding. Students in the course will develop their abilities to play, read, understand, and write music. Work includes exercises in music fundamentals, model composition, performance, analysis, improvisation, and ear training, all of which are intended to complement students’ everyday activities as musicians and listeners. The course will be divided into seminars focused on notation, theory, and analysis, and "labs" focused on application, aural development, and musical experimentation. The goal of a sequence of
music theory courses is to develop the students' musical understanding and awareness through an investigation of the acoustical, historical, stylistic, expressive, and rhetorical elements of music. This course begins with the building blocks of music: notes, modes, scales, rhythm, meter, dynamics, instrumentation, timbre, and melodic intervals. This will be followed by studies in melodic construction, counterpoint, harmony, and form.

By the end of the course, students will have a working understanding of the fundamentals of music and will be prepared for Music Theory II or further music studies. There will be a strong emphasis throughout on aural skills. Students will strengthen their aural skills using a variety of approaches-- including sight singing, piano playing, and the use of smartphone apps and computer software -- to the point where they can begin to transcribe and play their favourite music. Every student will leave the class with the ability to play simple notated music on the piano or a suitable instrument of their choice. There will also be a number of activities, often group projects that focus on the application of the students' developing knowledge and skills, such as improvising with each other, creating harmonisationss, or composing and performing new music.

This is an essential and fundamental music course, and a core course for students interested in the performing arts.

YHU2215 Drawing Methods (5 MC)
Instructor: Mark Joyce

**Pre-requisite(s): None**

This module introduces students to many of the basic skills and techniques, methods, concepts and practices in contemporary drawing. Classes will use a range of art materials and include notebook research, fieldtrips, talks and presentations. Students will develop a portfolio of drawings in a variety of media, and with tutorial advice make a selection for a final exhibition with the class, open to an external audience.

At the end of this course students will be able to:

1. Work with a broad range of art materials in a variety of contexts.
2. Develop critically informed drawing projects from the ground up, through the drawing process.
3. Identify a theme or approach, suitable for a personal project and outline this to peers in a formal presentation.
4. Make works over the period of the course, select works, discuss and install a group exhibition.
5. Drawing is a physical and intellectual activity, drawing involves observation, interpretation, analysis and evaluation, Students will work on drawings in a variety of contexts and methodologies.

6. Student’s practical abilities and knowledge of primary looking, viewing and visual analysis will be improved and they will identify an area of interest in consultation with tutors. This will be developed and extended in appropriate ways into artwork for an exhibition.

YHU2217 The Historian’s Craft (5 MC)
Instructor: Rebecca Tannenbaum

**Pre-requisite(s):** None

This is a hands-on course in which students will be introduced to the practices involved in historical research, writing, and presentation. Students will be exposed to a variety of models created by professional historians and evaluate the strengths and weaknesses of each. Direct engagement with primary sources will be a principal area of focus in this course.

In this hands-on history course, students will be introduced to the practices involved in doing history. The goal is to provide an advanced understanding of what goes into the making of historical interpretation. In the process, it is hoped that students will begin to find inspiration and materials for their own study and writing of history.

The course has three components: genres, materials, and media. The course will explore historical genres such as narrative history, descriptive history, transnational and comparative history, micro-history, biography, and the history of social institutions such as science, marriage, or slavery. Next, they will analyse different sources for historical knowledge, such as personal papers and print archives, visual media, objects, oral histories, and the landscape and environment. Finally, students will practise the making of historical projects across a range of media, which may include such diverse forms as traditional essays and term papers, online projects, policy papers, films, or museum exhibitions and installations.

By the end of the semester, students will be able to:

1. Evaluate the strengths and weaknesses of different methods of approaching the study of history
2. Deal competently with a variety of historical sources and practices
3. Evaluate different methods of presenting historical research
4. Be prepared to do original historical research, writing and presentation.
YHU2221 Dance in Society (2 MC)
Instructor: Chew Suyin

Pre-requisite(s): Students are encouraged to have at least 2 years of dance training in any dance genre. However, exceptional cases will be considered by the lecturer.

This course explores how and in what ways dance has played a crucial role in society. Using the text “Dancing: The pleasure, power and art of movement” by Gerald Jonas, this course will explore how dance functions in human societies. Students will be encouraged to explore the relationships between dance and culture, dance and identity, and dance and the community, as well as reflecting on the role, place, purpose and value of dance in a range of cultures and societies, including their own.

On successful completion of the course a student should be able to:

1. Demonstrate an understanding of the function, role, power, purpose and value of dance in society.
2. Recognise the many connections between dance and daily life
3. Choreograph a dance and explain its intended purpose as well as creative process behind the dance.
4. Answer these questions for themselves:
   a. Why do I want to choreograph?
   b. Who is the intended audience that I’m choreographing for?
   c. What am I saying in my choreography?

YHU2222 Digital Narratives (5 MC)
Instructor: Chen Yan Yun

Pre-requisite(s): None

This course explores narrative and interactivity in digital media through the creation of audio and moving image works. Students will read, experience, analyse and create digital narrative works including text, film, soundscape, and interactive visual art. Working with instances of dynamic storytelling in relationship to memory, personal narrative, and social critique, students will explore the all-encompassing realm of narrative, learn about digital media theory, and gain media production skills. The class will introduce students to cameras and audio recorders as well as audio and film editing software.

On successful completion of the course a student should be able to:

1. Articulate and express their own narrative and the relationship of their narrative to a broader social narrative, through the language of visual thinking and digital media.
2. Conceptualise and produce a digital narrative, utilising a variety of techniques and
digital tools taught in the course.

YHU2223 Documentary Photography (5 MC)
Instructor: Tom White
Pre-requisite(s): None

Photography is becoming increasingly important in our interconnected world. The question
needs to be asked if the exponential increase in images has resulted in a corresponding
increase in knowledge or visual literacy? This course will explore the use of photography as a
socially conscious art form, representing, reflecting and commenting on society and our place
in the world. Learning from the work of photographers of singular importance within the
Documentary genre as well as those pushing the boundaries of the medium, students will
work towards creating a body of work that tells a story through narrative, emotion, style and
substance.

On successful completion of the course a student should be able to:
1. Understand how composition relates to the conveyance of information.
2. Show how to make harmonious and discordant compositions.
3. Show how content and creative expression are intertwined.
4. Show how aesthetics works in relation to content.
5. Show how technical choices (Aperture, Shutter Speed) can be used for emphasis and
   creative effect.
6. Show how lens choice influences the look of the picture

YHU2224 Forms of Poetry (5 MC)
Instructor: Lisa Wells
Pre-requisite(s): None

“Form,” a wonderfully broad and slippery term, is often used to describe the way a poem
deploys its line, rhythm, sound, and how it’s arranged on the page. But form might also
describe an ideological project, an organising idea, what reoccurs and what is conspicuously
absent. In this semester-long course, students will explore the fundamentals of poetic form;
beginning in traditional (read: Western) prosodic meters and forms, proceeding through
Ghazals and the “deep image” traditions of Latin America and the Middle East, into free
verse, contemporary experimental forms and finally, performance poetry and hip-hop. Each
week, students will discuss and practice writing in these forms, and/or generate poetic
“imitations.” Students will also select poems to memorise and recite, participate in workshop
of one another’s work, complete creative, critical, and reflective responses, and two
“missions” that require community engagement, independent scholarship, and
correspondence with poetry students at another institution. This class will emphasise experimentation, the connections between creative reading and creative writing, fundamentals of poetic craft, and poetry’s lively connections to communities, culture, and other arts.

YHU2225 Love and Friendship (5 MC)
Instructor: Matthew Walker

**Pre-requisite(s):** YCC1114 Philosophy and Political Thought 2

A philosophical examination of some key questions concerning love and friendship. Readings will include classical and contemporary sources, and works from multiple intellectual traditions.

The course will further develop analytical, writing, and speaking skills in philosophical analysis cultivated in PPT I and II. Specifically, this course will further educate students in the habits of close reading, and will enhance their ability to reflect philosophically on love, friendship, and personal relationships. It will enhance their ability (a) to comprehend and evaluate a range of philosophical views and arguments (including views and arguments from difficult, classic philosophical texts from leading figures in the history of philosophy); (b) to appreciate the historical contexts in which philosophical views and arguments arise, and to cultivate a sense of fundamental philosophical alternatives; (c) to develop and defend philosophical views of their own; and (d) to appreciate and to engage constructively with the contributions that different philosophical traditions have made to thinking about love and friendship.

YHU2227 The Cage Revolution (5 MC)
Instructor: Meredith Morse

**Pre-requisite(s):** None

Can a porcelain urinal, or a bottle rack, be art? Can a stacked row of otherwise ordinary bricks be art? Can the act of pouring water from a pitcher into a glass be an artwork? Would walking back and forth across a stage be considered a ‘dance’? Is it art if I tell you to make a painting with your own blood until you pass out? If you did it, would the painting you made be art?

This course is an introduction to 1960s art in the U.S.A. It focuses on developments in New York City, and the work of one important figure whose influence on these developments has been significant, and is still evident today in art globally: the experimental composer John Cage. This course uses Cage’s ideas as a lens through which we see how this art of the 1960s profoundly changed the way we think about what a work of art can be and might do, who can
be an artist, and what an artwork might be made from and looks like, and suggested that an audience might be much more actively involved than simply looking at art (not that there's anything wrong with that!).

We will look at visual art, poetry, theater, and dance in the 1960s. We will examine Fluxus ‘events’ and Happenings, new forms of 'theater' (as Cage redefined it); new forms for plays and poetry, as in the work of Jackson Mac Low; dances by the Judson Dance Theater artists, who took up Cage’s chance methods to compose a work and focused on everyday movement, like walking and running; and the ‘instruction’ texts of artists including George Brecht, La Monte Young, and Yoko Ono. We will also consider the relation of Cage’s provocations to those of Marcel Duchamp and other figures of the historical avant-garde. We will look at Minimalist sculpture, and Pop Art.

Key questions that we will consider include: What is the role of medium, and how has it changed historically?; How can a work of art reveal the limitations of our knowledge of the world?; What is the role of the artist if art becomes more to do with ‘finding’, ‘arranging’, and ‘framing’ than ‘creating from scratch’?

**YHU2229 Drug Empires (5 MC)**
Instructor: Jessica Hanser

*Pre-requisite(s): None*

It is often assumed that drug trades occur on the margins of societies. This course provocatively suggests that drug trades occupy a central place in the development and underdevelopment of many modern societies. We explore that part of globalisation normally hidden from view. Drugs are defined broadly to include food and beverages with varying degrees of addictiveness, such as tea, coffee, chocolate, alcohol, sugar, tobacco, spices, and also opium. We will go back in time to examine comparatively the production, distribution, and consumption of these highly addictive goods from the sixteenth through nineteenth centuries.

On successful completion of the course a student should be able to read secondary history literature proficiently and write cogent essays evaluating the works they have read.
YHU2230 Dante and the European Middle Ages (5 MC)
Instructor: Andrew Hui

Pre-requisite(s): YCC1111 Literature and Humanities 1; and YCC1112 Literature and Humanities 2

This course is a careful and philological reading Dante’s Divine Comedy, an undisputed masterwork of world literature. As the Italian poet narrates his vision of the world beyond, we will journey with him through Hell to Purgatory and ascend to Paradise and finally return to earth. We will pay special attention to the historical, intellectual and social world of the European Middle Ages and the fraught legacy of the classical tradition. We will experience the sublime and terrifying grandeur of his cosmic vision, discuss theology and revelation, the state of souls in the afterlife, the primacy of poetry as an intellectual and spiritual activity, the nature of art and beauty, the relationship between pagan myths and Christian mysteries, and the medieval encyclopaedia of classical learning and religious doctrine. Suitable for students who were inspired by the Odyssey and the Ramayana anyone interested in imaginative literature in general. This course satisfies requirements in the Literature Major.

The knowledge that students will acquire in this course will be: a familiarity with the European Middle Ages, an understanding the foundations of epic as a literary genre, a grasp of one of the key texts of Western literature. The skills acquired in this course will be the ability to: think critically about literary and philosophical ideas; analyse complex texts closely and contextually; construct arguments on difficult topics such as the doctrine of transubstantiation and allegory; develop a sustained program of research in the humanities.

YHU2232 Global Science Fiction: Their Worlds, Ourselves (5 MC)
Instructor: Shaoling Ma

Pre-requisite(s): YCC1111 Literature and Humanities 1 and YCC1112 Literature and Humanities 2

The aim of the course is to cultivate historical, global and comparative perspectives on the cultural diversity of science fiction using critical terms of literary analysis. It explores the expansive genre of science fiction, its relation to literary utopia, speculative fiction, and fantasy. By beginning with less well known Indigenous American, Latin American, Russian, Sinophone, and Southeast Asian literary texts and films, before examining more established works by Euro-American authors, this course emphasizes the global reach and significance of science fiction.

Upon successful completion of the course a student should be able to demonstrate ability in all four skills identified as central to the Literature Major: aesthetic analysis, formulating arguments, historical and cultural knowledge, and critical thinking. Students will adeptly employ critical reasoning in the discussion of literary and cinematic texts, and interrogate
assumptions about globalisation, cultural and racial difference, historical change, and ideological values.

YHU2233 World Literature and its Discontents (5 MC)
Instructor: Gretchen Head

**Pre-requisite(s):** YCC1111 Literature and Humanities 1 and YCC1112 Literature and Humanities 2

Responding to the growing international circulation of literature in the early decades of the nineteenth century, Goethe declared, “The epoch of world literature is at hand, and everyone must strive to hasten its approach.” The term “world literature,” however, remains elusive and critics continue to grapple with David Damrosch’s question of, “which literature, whose world?” This course will address the Arabic/Islamic tradition and some of the difficult questions it poses to global literary studies, challenges that are both unique in their particularities and exemplary of the tensions characteristic of incorporating ‘minor literatures’ into broader comparative paradigms of inquiry.

On successful completion of the course a student should be able to demonstrate ability in all four skills identified as central to the Literature Major: aesthetic analysis, formulating arguments, historical and cultural knowledge, and critical thinking. They will gain an initial grounding in the Arabic/Islamic literary heritage and gain an appreciation of several of the key critical issues at stake when thinking about literature as a global phenomenon.

YHU2234 Creative Music Composition 1 (5 MC)
Instructor: Nirmali Fenn

**Pre-requisite(s):** YHU2205 Integrative Music Theory 1 or equivalent experience

This course is designed to stimulate new lines of enquiry that will help students define and enrich their own compositional ideas. Students will be exposed to the discoveries of composers, scientists of sound and artists outside of music in order to build a vocabulary to articulate one’s own ideas and listening experience. The goal of the course is to help students cultivate an independent voice as a creative artist and extend their musical imaginations.

On successful completion of the course a student should be able to:

- Show a critical understanding and handling of instrumental and vocal writing.
- Address formal problems with clarity of thought and intention
- Treat composition as a collaborative art form.
- Develop a portfolio of six compositions, which display a high degree of invention, musicality and technical assurance.
• Display clarity of vision, in conjunction with technical ability in execution across a wide range of parameters.

YHU3202 Permeable Boundaries: Music and Cultural Encounter (5 MC)
Instructor: Sarah Weiss

Pre-requisite(s): None

Reading theories of hybridity, postcoloniality, and difference, we will explore the musical results of cultural interaction in various locations/periods. Themes of appropriation, representation, globalisation, and identity will be explored and students will engage in critiquing and developing their own theories of musical hybridity/cultural interaction. Case studies may include: Appalachian Bluegrass – backwoods to hipster; South Asian Bhangra and diasporic identity; Mariachi and male/Mexican identity; Indonesian nationalism and Kroncong; Singaporean Chinese orchestra, Getai, and nonmainland Chinese identities; Malay Mak Yong revival in Singapore; reconstructions and rediscoveries of (hybrid) authenticity in the form of Irish/Celtic music and Yo-yo Ma’s Silk Road Project.

On successful completion of the course a student will:

1. be able to speak and write cogently about the ways in which cultural encounter is engaged in the process of musical expression;
2. understand the ways in which European colonial endeavours rippled through expressive cultures around the world;
3. have developed an appreciation and sensitivity to the complexities of the intersections between identity and musical expression;
4. have expanded their musical experiences;
5. have designed a fieldwork- or research-based project to investigate hybridity in musical expressive culture in Singapore or the region.

YHU3204 China and the West (5 MC)
Instructor: Jessica Hanser

Pre-requisite(s): None

Why did China make such a deep impression on Europe? In this upper level history course, we explore the entangled history of Europe and China from the sixteenth century to the present. What did China mean to Europeans, what were the sources of information upon which they formed their impressions, and why did European attitudes towards China change over time? We will conclude the course by turning the tables and examining Chinese perceptions of and attitudes towards Europeans.
On successful completion of the course a student should be able to analyse primary historical sources and read complex secondary scholarship; write clearly.

**YHU3205 Ming Imperial Voyages (5 MC)**

Instructor: Claudine Ang

**Pre-requisite(s):** None

From 1405 to 1433, the Ming admiral Zheng He (Cheng Ho) led seven extravagant expeditions to kingdoms in Southeast Asia and around the Indian Ocean world, going as far as the African continent. In this Historical Immersion course, we will examine the life of this eunuch-admiral and explore the nature of his voyages. We will also study the policies and ambitions of Zheng He’s patron, the Emperor Yongle, and consider his lasting legacy today.

On successful completion of the course a student should be able to conduct an in-depth study of Zheng He, the Ming imperial voyages, and Emperor Yongle’s ambitions. Students will read, in translation, primary sources such as fifteenth-century inscriptions and the *Ming Veritable Records*. We will also discuss the importance of Zheng He’s legacy to Southeast Asian Chinese populations. Through the course, students will develop an appreciation for the complexity involved in the construction of historical narratives. In addition, they will learn about the sources available for such a study and the main historiographical issues surrounding this topic.

**YHU3206 Advanced Creative Nonfiction (5 MC)**

Instructor: Robin Hemley

**Pre-requisite(s):** YHU2202 Introduction to Creative Nonfiction or with permission of the instructor.

This course is designed for students who have previously taken the Introduction to Creative Nonfiction course. The course is designed to hone the writing skills of students who are particularly interested in the personal essay form.

Students should be able to write essays in several different modes, from the personal essay to the lyric essay, and they should be able to demonstrate an understanding of the history of the essay as well as its current development in the international literary world.
YHU3207 The Interconnected World of 1000 CE (5 MC)
Instructor: Valerie Hansen (visiting)

Pre-requisite(s): The course assumes no prerequisites. Knowledge of a classical language (classical Chinese or Arabic or Latin will be helpful).

The world in the year 1000 CE, when the different regions of the world participated in complex networks. On successful completion of the course a student should be able to identify the major regions of the world as they took shape between 800 and 1200 CE, understand how historians formulate questions, and explain how our understanding of world history before 1500 is evolving.

YHU3208 The Witchcraft Trials of Colonial New England (5 MC)
Instructor: Rebecca Tannenbaum

Pre-requisite(s): None

This course will examine the social, religious, economic, and gender history of British North America as it manifested itself through witchcraft beliefs and trials.

On successful completion of the course a student should be able to:

1. Understand the multiple factors that created witchcraft outbreaks in the early modern world
2. Understand and evaluate conflicting historical arguments
3. Read and interpret primary historical documents
4. Write clear and compelling historical arguments and narrative

YHU3209 Rome, the Eternal City (5 MC)
Instructor: Virginia Jewiss

Pre-requisite(s): None

An interdisciplinary study of Rome from its legendary origins through its evolving presence at the crossroads of the world. We will explore the city’s rich interweaving of history, theology, literature, philosophy, and the arts in significant moments of Roman and world history.

This course fulfils the SMC requirement within the structure of the History Major. As such it will engage the student in advancing their understanding of/skills of: History and art history, mythology, literature, theology, political thought, and urban planning.
At the end of the course, students will have a good familiarity with the key issues and themes pertaining to the study of Rome as a classical European city, the seat of Roman and Christian empires, and the catalyst for major world events. Students will also have an awareness of historiographical trends on the city of Rome. They will be able to work with both primary source materials, as well as secondary literature and to read visual images. Finally, students will be able to articulate critical arguments both in oral and written form.

YHU3210 Proseminar in Literary Studies (5 MC)
Instructor: Geoff Baker

**Pre-requisite(s):** YCC1111 Literature and Humanities 1 and YCC1112 Literature and Humanities 2 or with permission of the instructor

The proseminar in literary studies introduces students to the comparative study of literary form. Students will be introduced to a range of theoretical and literary critical approaches from around the world.

On successful completion of the course a student should be able to:

1. Articulate a broad (if selective) narrative of pre-modern and modern literary theory
2. Articulate his or her own position with respect to major approaches to the study of literature
3. Use literary theory to generate richer and more nuanced readings of literary texts

YHU3211 Tales of the Strange (5 MC)
Instructor: Scott Cook

**Pre-requisite(s):** YHU2212 Introduction to Classical Chinese, or A-level Chinese Proficiency and/or with permission of the instructor.

This course will examine the Chinese literary genre of “Tales of the Strange,” from its earliest beginnings all the way to its later instantiations in late imperial times. All the primary readings will be in the original classical Chinese, and these will be supplemented by secondary readings in both English and Chinese.

Students will acquire in-depth knowledge of an important and enduring genre of Chinese literature; at the same time, they will further develop and refine skills in reading texts written in Classical Chinese. Students will also be guided to an appreciation of the historical origins and development of this genre and analyses of the literary conventions and devices employed in its most representative works.
YHU3212 Kant (5 MC)
Instructor: Simon Duffy

*Pre-requisite(s):* None

An introduction to Immanuel Kant’s critical philosophy, focusing on the *Critique of Pure Reason*.

On successful completion of the course a student should be able to:

1. Analyse the core arguments of Kant’s *Critique of Pure Reason*
2. Explain the reasons for Kant’s ‘Copernican Revolution’ in metaphysics
3. Identify the characteristic features of the doctrine of ‘transcendental idealism’
4. Evaluate Kant’s conception of experience
5. Outline Kant’s arguments on self and freedom
6. Evaluate Kant’s conception of freedom as autonomy
7. Critically appraise Kant’s philosophical project

YHU4201 Non-Classical Logic (5 MC)
Instructor: Ben Blumson

*Pre-requisite(s):* Logic and Philosophy of Logic or the equivalent of one semester intensive study of logic.

In classical logic, every sentence is either true or false, every argument with contradictory premises or a tautologous conclusion is valid, and every conditional with a false antecedent or true consequent is true. In this course, we explore non-classical logics which weaken these assumptions, including but not limited to various many-valued, modal and relevant logics, along with the philosophical questions they raise and answer.

On successful completion of the course, a student should understand the main alternatives to classical logic, and be able to use their knowledge of non-classical logic to assess the validity and soundness of philosophical arguments.

YID1201 Introduction to Environmental Studies (5 MC)
Instructor: Michael Maniates

*Pre-requisite(s):* None

This module introduces students to the field of environmental studies. We explore the core concerns of the field, its history, its primary methods of analysis, and a number of pressing environmental challenges to human well-being. We also examine how insights from the
humanities, the social sciences, and the natural sciences can be integrated to analyse environmental problems and generate responses to them.

Through deep reading, discussion and practical research, students in Introduction to Environmental Studies will:

1. Understand the central assumptions, methodologies, and claims that distinguish environmental studies as a field of academic research and practitioner activity.
2. Confront fundamental questions about the possibilities for environmental sustainability
3. Learn about the kinds of questions scholars in the field of environmental studies pose
4. Gain exposure to the methods of interdisciplinary problem-identification
5. Develop an understanding of the underlying drivers of environmental degradation
6. Consider how they might investigate environmental phenomena themselves, and begin to develop appropriate solutions

YID2202 Energy Humanities: Culture, Energy, and the Environment (5 MC)
Instructor: Matthew Schneider-Mayerson
**Pre-requisite(s):** YID1201 Introduction to Environmental Studies or permission of instructor
**Co-requisite(s):** YID1201 Introduction to Environmental Studies or permission of instructor

This course draws upon new research across the arts, humanities and social sciences to help students better understand the cultural and social dimensions of our current patterns of energy use, their environmental impacts, and the possibility of new energy futures. More generally, the course introduces students to the field of environmental humanities, and models the contributions of the humanities to a deeper understanding of environmental issues.

On successful completion of the course a student should be able to:

1. Understand the role of the humanities around issues such as energy and the environment
2. Better appreciate the pitfalls of approaching environmental problems without reference to and use of humanistic traditions
3. Identify key scholars in the humanities who are bringing their work to bear on the understanding and possible resolution of environmental ills
4. Question their own assumptions about the primacy of the natural sciences and social sciences in environmental analysis and problem solving
YID2203 Ecology and Ecosystems (5 MC)
Instructor: Michiel van Breugel

**Pre-requisite(s):** None. For environmental studies students, YID1201 Introduction to Environmental Studies is recommended but not required.

Ecology investigates the complex interactions between organisms and their environment, including other organisms. This course asks how life-history strategies, environmental conditions, and local biotic interactions (e.g. competition, trophic interactions) shape the structure and dynamics of natural communities (e.g. functional composition, diversity, productivity, stability, and food webs). It also explores how natural communities form metacommunities over larger spatial scales and across ecosystems boundaries. Students draw on selected case studies to examine (1) links between biodiversity and ecosystem productivity, stability, and resilience; and (2) management options for biodiversity and ecosystem services in human-dominated landscapes.

On successful completion of the course a student should be able to:

1. understand core concepts and theories in the field of ecology;
2. be better able to critically evaluate natural-science literatures;
3. know how to evaluate research questions and hypothesis in the field of ecology, and be better equipped to formulate and test their own hypotheses, especially within the context of field studies;
4. appreciate the complexity of sampling and analysing of ecological data;
5. be able to apply ecological concepts to policy questions about biodiversity and ecosystem services

YID3201 Conservation Biology (5 MC)
Instructor: Jennifer Sheridan

**Pre-requisite(s):** YID1201 Introduction to Environmental Studies or permission of instructor

**Co-requisite(s):** YID1201 Introduction to Environmental Studies or permission of instructor

An introduction to the principles of conservation biology, including population, community, and ecosystem-level approaches. Students will learn the basics of ecology and population genetics as they pertain to conservation, interrogate classic case studies in the field, and explore relevant examples from around Southeast Asia.

On successful completion of the course a student should be able to:

1. Identify key issues in conservation biology
2. Understand the fundamentals of effective conservation mitigation and planning
3. Appreciate the insights afforded by ecology and genetics for scholars and practitioners of conservation biology.

YID3202 Special Topics in Environmental Studies (5 MC)
Instructor: John Wargo

*Pre-requisite(s):* For this Semester 1, AY2015/2016 iteration of the Special Topics module, there is no pre-requisite.

An exploration of an environmental topic or theme of relevance to upper-level students in environmental studies. The topics covered within the course will be detailed in the syllabus given to a student in advance of the course. The faculty teaching the course will change and as such topics will change according to their specialisms and interests. For Semester One in 2015/2016, Professor Wargo from the Environmental Science program at Yale College will offer a specialised course on food issues.

On successful completion of the course a student should be able to demonstrate expertise in the field covered, be able to pose critical questions, and be capable of integrating knowledge from the course into their larger area of study in environmental studies.

YID4201 Advanced Seminar in Environmental Studies (5 MC)
Instructor: John Wargo

*Pre-requisite(s):* For this Semester 1, AY2015-2016 iteration of the Advanced Seminar module, the pre-requisite is “YID1201 Introduction to Environmental Studies OR YID2201 The Theory and Practice of Environmental Policymaking”

A small-group, intensive seminar in a specific environmental topic or theme of relevance to advanced students in environmental studies. The topics covered within the course will be detailed in the syllabus given to a student in advance of the course. The faculty teaching the course will change and as such topics will change according to their specialisms and interests. For Semester One in 2015/2016, Professor Wargo from the Environmental Science program at Yale College will offer a specialised course on environmental policy and law.

On successful completion of the course a student should be able to demonstrate expertise in the field covered, be able to pose critical questions, and be capable of integrating knowledge from the course into their larger area of study in environmental studies.
YSS1207 Introduction to Urban Studies (5 MC)
Instructor: Jane Jacobs and Yaffa Truelove

**Pre-requisite(s): None**

This course offers an introduction to urban studies. It enquires into the evolution of cities historically as well as the contemporary processes of urbanisation. The course also introduces students to key explanatory frameworks for understanding the contemporary economic and social function of cities. The course can be taken as a gateway to the Urban Studies major or as an elective.

This course offers students an introduction to the key object of urban studies – cities – as well as the frameworks of analysis used in urban studies. The course will examine urbanisation processes in the past and in contemporary contexts: why do cities form?; what functions do they serve? How does this change from one time to another, from one context to another? What ways of life do they support? What are some of the key issues facing cities today and how can they be addressed? The course will draw on examples of city formation both past and present, as well as in developed and less-developed contexts.

Students taking this course will learn about:

- why cities form and their functions;
- the culture, thoughts, institutions, policies, and processes shaping urban areas;
- differences between cities and urbanisation processes in developed and developing contexts;
- the distinct understandings brought to urban studies by different disciplinary approaches.

YSS2201 Understanding Behaviour and Cognition (5 MC)
Instructor: Chris Asplund

**Pre-requisite(s): None**

This course will introduce students to themselves and others as viewed through the lens of psychology. We will present and explore the scientific study of human (and animal) behaviour, seeking to understand why we think, feel, and act as we do. The goal is to build a firm foundation for those wishing to major in psychology while simultaneously providing an interesting and revealing elective to those visiting psychology on their way to other disciplines.

This course introduces students to the overall field of psychology and the scientific study of human behaviour. The course will cover the key areas of psychological study and is required for students planning to major in psychology. As such students will be introduced to
biological psychology, the study of human development, sensation and perception, theories and techniques of learning, motivation intelligence, human sexuality, personality, social psychology, psychological disorders and the interface between psychology and physical health. At the end of the course students will have an understanding at the overview level of the basic aspects of psychology and will be prepared for further study in psychology. This course can be used as either a gateway course for the Psychology major or as an elective for students interested in the subject matter.

**YSS2202 Introduction to International Relations (5 MC)**
Instructor: Steven Oliver

*Pre-requisite(s): None*

This course introduces students to concepts, theories, and cases associated with the study of international politics. We will study contemporary scholarly texts and examine empirical evidence relating to key historical experiences such as the Cold War, which inform contemporary international relations theories. The aim of this course is to provide students with a robust understanding of the major ‘schools’ of thought in international relations. This knowledge will allow students to investigate further the domains of international politics, public policy, and globalisation. This is a gateway course for the Global Affairs major. It serves as the introductory course for students who want to take upper level courses in Global Affairs, and international politics in particular.

**YSS2203 Intermediate Microeconomics (5 MC)**
Instructor Eugene Choo, Joanne Roberts and Rene Saran

*Pre-requisite(s): None*

Economics is concerned with the study of how individuals make decisions and how these decisions affect, and in turn are affected by, the distribution of limited resources in society. This course introduces students to the formal analysis of decision-making by individuals, households and firms, and the social implications of such choices. Special emphasis is placed upon the mathematical foundations of theoretical models.

**YSS2207 An Introduction to Social Psychology (5 MC)**
Instructor: Paul O'Keefe

*Pre-requisite(s): YSS2201 Understanding Behaviour and Cognition or with permission of instructor*

Humans are known as social animals for a reason. There is no part of our lives that is not influenced in one way or another by our social interactions. In this course we will be
exploring the ways in which we are influenced by our social environment, how we influence others, how we think about social situations, how we relate to other people and the implications for understanding human behaviour.

This course introduces students to the study of social behaviour from the perspective of psychology. As such it will cover such areas as social cognition, attitudes, group behaviour, social motivation, , prejudice and discrimination, and the application of social psychological methods to such areas as health and law. Social psychology is considered to be one of the core areas in psychology and this course will prepare students for future study in psychology. At the end of the course students will have an understanding of core social psychological concepts and the methods that social psychologists use to study various social phenomena.

YSS2212 Firms’ Strategies and Market Competition (5 MC)
Instructor: Rene Saran
Pre-requisite(s): YSS2203 Intermediate Microeconomics

In this course, we will study various strategies that firms deploy when facing market competition and the impact of such strategic behaviour on market outcomes like prices, efficiency, market structure, innovation etc. Examples of firms’ strategies include price discrimination, product differentiation, advertising, collusion, mergers and entry deterrence. We will analyse theoretical models of imperfectly competitive markets to gain insights into firms’ behaviour and functioning of real-world markets.

Students will be introduced to several theoretical models of firms’ behaviour in imperfectly competitive markets. Imperfect competition is an umbrella term that captures a variety of market structures in which firms strategize to influence market outcomes. By analysing theoretical models, students will understand many real-world market outcomes. At the same time, this course will develop skills in analytical thinking and building economic models to capture observed economic phenomena.

YSS2213 Globalisation: Past, Present, and Future (5 MC)
Instructor: Nancy Gleason
Pre-requisite(s): YCC1121 Comparative Social Institutions or with permission of instructor

This gateway course focuses on the economic, political, cultural, and social aspects of globalisation. Students will be introduced to the various waves of globalisation the world has undergone, and the impact of the growing mobility of capital, labour, and ideas around the world. In addition to economic globalisation, students will study the globalisation of crime, environmental degradation, culture, and food. They will read what both the critics and
advocates of globalisation and its sub-processes have to say about its impacts, looking at particular case studies sourced from various countries.

The main objective of this course is to help students understand the structures and processes of global governance and globalisation in the past, in the present and potentials for the future. Students will learn about the origins of the global economy and how international relations theory works to explain the forces that move markets. Student will learn to critically question the viability of the modern nation-state in light of global interconnectedness through class discussion and a class debate exercise. The course aims to give students new skills in communicating political challenges using technology. To this end the course includes an “info-graphic” assignment in which students will research and prepare material for a predetermined audience and present that information in a single infographic – globalisation topics to be covered on this assignment include gender, the environment and terrorism.

**YSS2216 Statistics and Research Methods for Psychology (5 MC)**
Instructor: George Bishop

*Pre-requisite(s):* YCC1122 Quantitative Reasoning or with permission of instructor

This course is concerned with research methods and the use of statistics in psychology. As such this is a skills oriented course aimed at preparing students for taking the required laboratory course in psychology as well as doing their senior capstone project. We will be covering research methods and statistics simultaneously since they are closely intertwined).

This course introduces students to the research methods commonly used in psychology and the associated statistical methods for analysing results. It is a skills-based course that will emphasise hands on data collection and the use of statistical methods for analysing that data. At the end of the course students will understand the nature of psychological research and have developed the statistical skills necessary to take the laboratory courses in psychology and for the senior capstone project.

**YSS3201 International Migration (5 MC)**
Instructor: Anju Paul

*Pre-requisite(s):* None

An introduction to foundational theories that explains why people migrate and their post-migration experiences. On successful completion of the course, a student should be able to:

1. Summarise the various theories that have been proposed to explain why and how some people leave their home countries to live and work overseas
2. Assess the applicability of these theories to specific case studies of international migration
3. Interpret large-scale bilateral migration data from publicly-available databases
4. Construct an interview questionnaire to research the migration decision of a specific migrant population
5. Conduct an in-depth, semi-structured interview with a migrant about their personal migration decision
6. Code and analyse qualitative data from their interview
7. Write a research paper based on their primary and secondary data analysis

YSS3202 Ethnography (5 MC)
Instructor: Andrew Johnson

Pre-requisite(s): YCC2121 Modern Social Thought or with permission of instructor

In this course, students will understand what constitutes ethnographic field methods, what makes ethnographic writing different from other kinds of nonfiction writing, and the ethical and theoretical considerations within ethnographic research. Over the semester, students will conduct their own, small-scale ethnographic fieldwork, interviews and participant observation based in Singapore. This course is required in the Anthropology Major. This course satisfies requirements in the Global Affairs Major. This course satisfies requirements in the Urban Studies Major.

This is an advanced course on field methods, specifically ethnography, “writing culture.” It fulfils the research methods requirement for the anthropology major. In this course, students will understand what constitutes ethnography, what makes ethnographic writing different from other kinds of nonfiction writing, and ethical and theoretical considerations within ethnographic research. At the end of the course, students will conduct their own, small-scale ethnographic fieldwork, interviews and participant observation based in Singapore.

YSS3203 Behavioral Economics (5 MC)
Instructor: Guillem Riambau

Pre-requisite(s): YSS2203 Intermediate Microeconomics or with permission of instructor

Co-requisite(s): YSS2203 Intermediate Microeconomics (i.e. if not taken before, YSS2203 has to be taken alongside this course unless permission of the instructor is granted)

The field of behavioral economics draws on insights from other disciplines, especially psychology, to enrich our understanding of economic behaviour and decision making generally. Individuals frequently make decisions that systematically depart from the predictions of standard economic models. In this course, we will attempt to understand these departures by integrating the psychology of human behavior into economic analysis. Hence,
this course analyses all types of decisions made by agents on a daily basis (from which breakfast to have to where to send the kids for education, etc.). Also, special focus will be put on decision making in a context of bounded rationality (scarce information, scarcity of time to make decisions, decision making under drugs intoxication etc).

On successful completion of the course a student should be able to understand all the various ways by which we can analyse, model and even improve decision-making. Also, special emphasis will be placed on experimental economics, that is, how to replicate ‘real-life’ situations in a lab so that we can analyse choice closely.

YSS3206 Law and Economics (5 MC)
Instructor: Joanne Roberts

Pre-requisite(s): YSS2203 Intermediate Microeconomics or with permission of instructor
Co-requisite(s): YSS2203 Intermediate Microeconomics (i.e. if not taken before, YSS2203 has to be taken alongside this course unless permission of the instructor is granted)

An introduction to the relationship between law and economics, including the practical application of microeconomics to several common legal issues: torts, contracts, property, and crime.

On successful completion of the course, the students will have the analytical framework necessary to use microeconomic analysis to analyse institutional rules.

YSS3207 Advanced Econometrics (5 MC)
Instructor: Eugene Choo

Pre-requisite(s): YSS2211 Econometrics or with permission of instructor

This course broadly covers advanced topics in econometrics. The focus is on time series econometrics and financial econometrics. However, panel data and asymptotic theory are also tackled in this course -in more depth than in ‘Intermediate Econometrics’. This course mixes theory and applied work: theoretical foundations are covered, and the applications of the theory in real life are analysed.

On successful completion of the course a student should be able to have a good understanding of the mathematical models used to analyse large crosssectional datasets, panel data, financial and time-series datasets.
YSS3210 International Security (5 MC)
Instructor: DJ Kim

**Pre-requisite(s):** None

This course offers students an in-depth learning experience in the field of Security Studies. The topics on offer will vary from year to year, but will pertain to specific questions, debates, and literatures in the field of international security. The topics covered within the course will be detailed in the syllabus given to a student in advance of the course. The faculty teaching the course will change and as such topics will change according to their specialisations and interests.

By the end of the semester, students will have:

1. An in depth understanding of particular question, debate, or literature within the field of Security Studies.
2. Refined their ability to develop and articulate an argument about the relative explanatory value of competing theories or implications of evidence/data.

YSS3211 Human Rights (5 MC)
Instructor: Nomi Claire Lazar

**Pre-requisite(s):** None

Human rights play a central role in global and domestic politics and are intimately connected with the politics of conflict and security. This casebased course situates rights in historical, legal, normative, and political contexts, providing students with a critical perspective on contemporary rights discourses as well as a practical introduction to legal rights frameworks and their applications.

The course will have context, content, and skill objectives as follows. With respect to context, the course will touch on the origins and history of human rights and the documents which embody them. This will incorporate discussion about more broadly applicable themes, such as the relationship of ideas to political action, the politics of negotiation of international treaties and conventions, and the interconnection of domestic and international political pressures. With respect to content, by the end of the class, students should be familiar with core international rights documents, as well as selected national constitutional rights documents and the politics surrounding selected illustrative cases. Students should also be familiar with the three keys forms of rights limitation and the contexts in which these occur, as well as basic legal concepts and texts which govern them.

In terms of skills, beyond the usual writing and critical reading skills, this course will place special emphasis on skills of rhetoric, applied here in the rights context but applicable more
broadly. Students will have gained insight into, and practice with, the strategic use of rights-talk for governments and their critics on the national and international stage.

**YSS3213 Culture and Violence (5 MC)**
Instructor: Parashar Kulkarni

*Pre-requisite(s): None*

Many forms of inter-personal violence such as honour killings, dowry deaths, witch-hunts, female infanticide, are attributed to differences in culture (norms, beliefs, values, social capital, and identities). Competing explanations link these forms of violence to economic and political causes such as property rights, repression by political elites, and political competition between religious groups. In this course, we will study the micro foundations of culture, and critically examine the relationship between culture and inter-personal violence using some theoretical and mostly empirical literature. We will also examine the efficacy of interventions such as legislative change, economic incentives, and civic engagement to alleviate these forms of violence.

**YSS3215 Cognitive Psychology (5 MC)**
Instructor: Christopher L. Asplund

*Pre-requisite(s): YSS2201 Understanding Behavior & Cognition or with permission of instructor*

This course introduces students to the study of how the mind works, seeking to understand how sensory information is transformed, stored, retrieved, or used. Although primarily focused on psychological approaches to understanding cognition (as mental information processing), it will also connect to relevant approaches within neuroscience, linguistics, philosophy, and computer science. Topics and processes to be explored include attention, language, learning, memory, perception, reasoning, emotion, and action.

On successful completion of the course a student should be able to:

1. Understand and explain the basic tenets/theories of cognitive psychology across multiple domains, including attention, language, learning, memory, perception, reasoning, emotion, and action.
2. Know and critically evaluate the experimental evidence that has led to the development of these theories.
3. Understand the psychological approach to cognitive science, as well as components of relevant approaches from neuroscience, linguistics, philosophy, and computer science.
4. Begin to apply knowledge about cognitive science to everyday problems and situations (e.g. software design or public policy).
YSS3216 Current Issues in Urban Studies (5 MC)
Instructor: Rita Padawangi

**Pre-requisite(s):** Yale-NUS Year One and Two Common Curriculum, or permission of instructor

This course offers students an opportunity for in-depth immersion into a specialist and current topic in the field of Urban Studies. The topics on offer will vary from year to year, but will generally be related to a specific current issues in the field of urban studies.

For Semester 1, AY2015/2016, the focus is on **Urbanising Disasters**. This topic concerns itself with the relationship between so-called ‘natural disasters’ (earthquakes, tsunamis, floods, volcanic eruptions, and severe weather events) and urbanisation. It inquires into the challenges posed to governance, infrastructure and citizen well-being for cities affected by natural disasters, and questions the very ‘naturalness’ of such disasters. It introduces students to relevant social scientific work on risk, as well as policy work on disaster governance in urban contexts. The course will investigate in-depth a range of contemporary urban disaster case studies, including the annual flooding of the Ciliwung in Jakarta and Hurricane Sandy’s effect on New York.

On successful completion of the course a student should be able to:

1. understand, with depth, a specific current issue in Urban Studies;
2. be familiar with relevant scholarly literatures pertaining to the issue;
3. locate, manipulate and make sense of relevant data pertaining to the issue;
4. write as well as offer visual and verbal scholarly accounts of the current issue under examination.

YSS3217 Urbanisation in China (5 MC)
Instructor: Nick Smith

**Pre-requisite(s):** None

This course offers students and in-depth and interdisciplinary understanding of processes of urbanisation in contemporary China. Students will understand the specific features of urbanisation in China and the ways these are linked to the restructuring of economic, political and social agendas. Specific emphasis is given to rural-urban migration; the marketization of land and property; and the restructuring of relations between local and central government. Students will be given opportunities to understand and evaluate the social and environmental costs of urbanization in contemporary China.

On successful completion of the course a student should be able to:

1. understand, with depth, urbanisation processes in contemporary China;
2. be familiar with relevant scholarly literatures pertaining to urbanisation in contemporary China;
3. locate, manipulate and make sense of relevant data pertaining to urbanisation in China;
4. write as well as offer visual and verbal scholarly accounts of urbanisation in China.

YSS3219 Developmental Psychology (5 MC)
Instructor: Nina Powell

Pre-requisite(s): YSS2201 Understanding Behaviour and Cognition or with permission of instructor

This course introduces students to the field of developmental psychology which addresses the ways in which humans develop psychologically.

At the end of this course students will be familiar with the various aspects of psychological development and the theories associated with understanding that development. They will also be conversant with the research done on development across the lifespan as well as the implications of that research.

YSS3220 Political Economy (5MC)
Instructor: Francis Dennig, Yibei Liu

Pre-requisite(s): YSS2203 Intermediate Microeconomics and YSS2211 Econometrics or permission of instructor

This course focuses on understanding how interactions between political actors influence decisions and outcomes. It will introduce students to theoretical approaches seeking to explain the political behaviour of various agents in Society. The focus will be theoretical but the empirical evidence will also be reviewed and potential applications to public policy will also be discussed. Some of the problem sets will require data analysis with a statistical software package called STATA.

YSS3221 Politics of Southeast Asia (5 MC)
Instructor: Risa Toha

Pre-requisite(s): None

The course will focus on the politics of Southeast Asia. Topics may include the study of electoral processes, institutions and institutional design, party structures, authoritarian or democratic transitions, social movements and rebellions, identity group politics, forms of political representation, and legal and constitutional systems.
Students will be able to understand and evaluate the particularities of the political processes of Southeast Asia, and should be able to compare it to other areas or countries of the world using empirical and qualitative data. Students will also acquire a set of empirical and qualitative tools of analysis that will allow them to design detailed studies of, and critique, other political systems in the world.

**YSC1206 Conceptual Calculus (2 MC)**
Instructor: Matthew Stamps

**Pre-requisite(s):** None

An introduction to concepts of calculus, for students who may encounter calculus in science and economics courses. Topics include: the analysis of functions and qualitative interpretations of the derivative and definite integral; occurrences of derivatives and integrals in geometry, probability, and physics; the computation of derivatives and antiderivatives of simple functions; computing derivatives and antiderivatives of more complicated functions with the aid of a computer.

A student should be able to look at the graph of a function, and qualitatively determine the following

a) Whether the function is continuous or differentiable;
b) The graph of the first and second derivative of the function;
c) The location of critical points and inflection points;
d) The graph of the antiderivative of the function;
e) A reasonable guess for a function whose graph would resemble the given graph, if the graph has a common form.

A student should be able to determine when limits, differentiation, and integration are suggested by a real-world problem.

a) A student should be able to interpret boundary conditions, asymptotes, and singularities in terms of limits.
b) A student should be able to interpret questions about velocity, acceleration, approximation, and local optimisation in terms of derivatives.
c) A student should be able to interpret questions about area, length, work, and mathematical expectation (averages) in terms of integrals.

A student should be able to demonstrate computational fluency on the following sorts of problems:

a) The derivatives of polynomials.
b) The derivative of sine and cosine, e^x and log(x).
c) Apply the product rule and chain rule, when the abstract form of the rules are given.
d) The antiderivatives of polynomials.
e) The antiderivatives of sine and cosine, e^x and log(x).
f) Apply integration by parts and substitution, when the abstract form of the rules are given.
g) Definite integrals and indefinite integrals, using antiderivatives as above.
h) Arc length and volume problems.
i) The student should be able to use a computer to look up derivatives and integrals.

YSC2201 Number Theory (5 MC)
Instructor: Marty Weissman
**Pre-requisite(s):** None

This one-semester course in number theory demonstrates how, from little more than primary-school mathematics, one can deduce surprising and deep results. Unlike mathematics courses which reward repetitive computation or quickness in numerical trickery, this course emphasises an aesthetic of mathematical beauty constructed over longer periods of time. No mathematical background beyond basic algebra is required, and students of humanities and social science are encouraged to join the course along with potential science majors. Students will develop the ability to read and write sustained logical arguments, a skill which applies universally.

Students in this course will grow to understand whole numbers, integers, prime numbers, and rational numbers. Most of all, they will realise how much mystery lies within these familiar objects. The class will encounter problems that were only solved after centuries of struggles, and problems that vex mathematicians today. In this way, students will understand mathematics as a living subject. A unique feature of number theory is the variety of methods that apply - this class will focus on geometric methods, visual approaches to questions about numbers.

This course counts towards the Mathematics and Computational Sciences major, and a first pure mathematics course open to all liberal arts students with interests in mathematics. Number theory is uniquely suited to this dual purpose since it requires no mathematics background beyond the level of secondary school. All students will conduct research based on their interests - topics might range from historical surveys to implementation of cryptographic algorithms.
YSC2210 Statistical Programming (5 MC)
Instructor: Michael Gastner

**Pre-requisite(s):** YCC1122 Quantitative Reasoning or permission of Instructor

This course teaches the statistical programming language R. Students will learn to write their own computer code to solve problems in data analysis, probability and statistics. First we cover the fundamentals of R (data types, functions, flow control, data input/output and management). In the second part, we use R’s built-in functions to generate probability distributions, perform descriptive statistics and graphics, and make statistical inferences. The final part of the course will teach how we can write our own programs that simulate random processes in physics, biology and the social sciences with Monte Carlo methods.

On successful completion of the course a student should be able to:
- Write R code that is efficient and readable.
- Devise computational solutions to numerical and data management problems.
- Perform data analysis and produce graphics that convey information effectively and are aesthetically pleasing.
- Use R for statistical inference.
- Conduct simulation studies.

YSC3201 Genetics (5 MC)
Instructor: Nicholas Tolwinski

**Pre-requisite(s):** Integrated Science or Foundations of Science and one additional Life Science course

This course illustrates basic principles of genetics using examples from prokaryote and eukaryote organisms. It emphasises classical genetic techniques and how genetics is used to gain understanding of whole organisms. The gene, its context and the genome are the primary concepts covered. The focus will be on Drosophila developmental genetics, yeast cell biology and human disease. On successful completion of the course a student should be able to understand genetics.

YSC3202 Advanced Chemistry Laboratory (5 MC)
Instructor: Leslie Harrison

**Pre-requisite(s):** None

This is an advanced course in experimental chemistry. It provides students with hands-on experience of more advanced aspects of practical chemistry as well as illustrating how they can be used to investigate concepts from different branches of chemistry and biological sciences.
Students will study the advanced techniques of experimental chemistry. They will apply these to a variety of phenomena e.g. i) phase changes in three component systems, ii) the conductivity of electrolyte solutions, iii) bond deformation and rotation in small molecules, iv) kinetics (Lindemann mechanism), v) structure determination of organic compounds and biomolecules using multidimensional NMR, and vi) the use of enzymes in chemistry. At the end of the course, the student will be prepared to continue further in advanced topics in chemistry and related fields.

**YSC3203 Advanced Algorithms and Data Structures (5 MC)**
Instructor: Robby Tan

*Pre-requisite(s):* YSC2204 Fundamentals of Programming or Permission of instructor

This course studies the design and rigorous analysis of algorithms and data structures. Topics may include dynamic programming, Fibonacci heaps, graph algorithms, string algorithms, parallel algorithms, and concurrent data structures.

This course will teach a series of advanced algorithms and data structures. In addition to teaching a variety of useful individual topics, this course will help students understand how such algorithms and data structures are designed and rigorously analysed.

**YSC3204 Group Theory (5 MC)**
Instructor: Matthew Stamps

*Pre-requisite(s):* YSC2209 Proof or permission of Instructor

Groups are fundamental objects of abstract algebra, and they arise in a variety of contexts. This course introduces group theory through a deep study of permutation groups, symmetry groups, and matrix groups. Examples of group actions play a central role. The course includes a study of subgroups, quotients, and homomorphisms, direct and semidirect products, and other methods of constructing and classifying groups.

On successful completion of the course a student should be able to:

1. Extract a group from a collection of transformations in a combinatorial, geometric or physical context;
2. Explore such features of the group as its order, solvability;
3. Apply techniques and results of group theory to other areas such as number theory, algebra and physical science.
YSC3205 Linear Algebra (5 MC)
Instructor: Tim Wertz
Pre-requisite(s): YSC2209 Proof or permission of instructor

A rigorous first course in linear algebra of finite-dimensional real and complex vector spaces. The course covers vectors and linear transformations, building geometric intuition and algebraic aptitude. Topics include spaces and subspaces, linear maps, linear independence and spanning, basis, and representations by coordinates and matrices. The theory of linear operators is developed, including some development of canonical forms, eigenvalues and eigenvectors, characteristic and minimal polynomials. The course also covers the structure of bilinear and Hermitian forms. Other topics may include computational aspects of linear algebra and connections to statistics. Problems may include applications to scientific fields and economics.

On successful completion of the course a student should be able to:

1. set up a linear model for many applications;
2. perform requisite manipulations and computations of matrices, obtaining eigenvalues, diagonal forms, etc.;
3. relate the algebra of linear transformations to their geometric effects;
4. devise mathematical proofs of standard properties of linear objects.

YSC3206 One Real Variable (5 MC)
Instructor: Andreas Heinecke
Pre-requisite(s): YSC2209 Proof or permission of instructor

This course embarks on a deep study of the real numbers and functions of a single real variable. Fundamental properties of real numbers – arithmetic, distance, limit, convergence, order – are developed from scratch. From there, the course delves into the inner workings of calculus, the general notions of continuity, differentiability, measure, and integration, for functions of one real variable.

On successful completion of the course a student should be able to:

- analyse functions – their continuity, differentiability, and integrability;
- know and apply the definitions of terms like “continuous” and “converges uniformly” when reading mathematics or writing proofs;
- prove theorems about real numbers and functions;
- synthesise theoretical methods based on set theory with intuition about numbers and functions.
YSC3207 Principles and Tools of Software Development (5 MC)
Instructor: Simon Perrault

**Pre-requisite(s):** YCC2133 Integrated Science (Computer Track) or YSC1202 Introduction to Computational Thinking and Programming for All or permission of instructor

Only being able to programme does not make one a good programmer. This course teaches principles and tools that can make a good software developer. Students will learn basic principles of software development, e.g., encapsulation, information hiding, modularisation, unit/integrated testing, debugging, programming in a team, profiling. They will also learn tools that will help automate these tasks, e.g., Make, version control systems (git), shell scripting, UNIX programming.

On successful completion of the course a student should be able to understand basic principles and tools for software development and apply them for their future projects at Yale-NUS and beyond.

YSC3210 Introduction to Quantum Mechanics (5 MC)
Instructor: Oh Choo Hiap (from Physics, NUS)

**Pre-requisite(s):** YSC2203 Classical Mechanics and YSC2205 Mathematical Methods for Physical Scientists or Permission of instructor

**Co-requisite(s):** None

This first course on quantum mechanics introduces students to the postulates of quantum theory and then applies it to discuss problems like two level systems, quantum harmonic oscillators, the variational principle and the WKB approximation.

On successful completion of the course a student should be able to solve for wave-functions in model geometries like the square well potential and the harmonic oscillator. Students should be comfortable with hydrogenic wavefunctions and apply techniques like the WKB and the variational principle to solve for approximate wavefunctions or connection formulas in systems like the hydrogen molecule or the double well potential.

YSC3211 Introduction to Electrodynamics (5 MC)
Instructor: Ong Chong Kim

**Pre-requisite(s):** YSC2205 Mathematical Methods for Physical Scientists Or Permission of Instructor

This course introduces the basic concepts of electrodynamics, taught with the full mathematical and physical rigor necessary for subsequent courses on the subject. Topics
typically include electrostatics and magnetostatics, both in free space and in media, dynamics as described by Maxwell’s equations, electromagnetic waves, optics, and simple relativistic phenomena. *Introduction to electrodynamics* is a core course for the Physics pathway within the Physical Science major.

On successful completion of the course a student should be able to:

- understand the physics behind basic electromagnetic phenomena;
- describe the phenomena in a mathematically rigorous manner;
- apply the concepts and techniques to analysing other physical systems involving electric and magnetic fields in future courses.

**YSC4200 Special Project in Science (5 MC)**

Instructor: TBA

**Pre-requisite(s): Unusually strong preparation in science, and prior approval of the Director of the Science Division**

This course provides academic credit of major research projects conducted by students prior to the Capstone project. The scope and depth of the research should be at the level of a Capstone project, and thus requires unusually strong preparation in science. All projects must be approved by the Director of the Science Division before the course is selected.

On successful completion of the course, a student should be able to present the results of research conducted by the student in both written and oral form at a level appropriate for publication or presentation at a professional conference.

For more information, please refer to the “Special Project in Science” Form.
Independent Reading and Research

YIR2311 Independent Reading and Research Sem 1 (2 MC)
YIR2312 Independent Reading and Research II Sem 1 (2 MC)
YIR3311 Independent Reading and Research Sem 1 (2 MC)
YIR3312 Independent Reading and Research II Sem 1 (2 MC)
Instructor: TBA

**Pre-requisite(s):** None (Consent of the Supervisor, Divisional Director, Vice Rector and Dean of Faculty)

YIR2311 & YIR2312: For Year 2 students (Class of 2018)
YIR3311 & YIR3312: For Year 3 students (Class of 2017)

Independent Study in an area of special interest to the student(s), with the close guidance of a faculty member, leading to a final project/product.

In consultation with a faculty member, a student or students should craft a proposal outlining the nature of the project and the work s/he intends to finish during the semester. This option is intended for an individual or small group of 1-2 students are expected to participate per project. Faculty can recommend projects to students, but the proposal as such should come from the students. Projects can be reading intensive or practical (lab, field or studio work). The student(s) and faculty member should plan to meet at least once a week and the student should expect to spend the equivalent of 5 hours/week for a full semester on the project. As its name suggests, the proposal must have at its core the student(s) engaging primarily in independent study nature.

Proposals should be no more than 1-2 single spaced pages, and should contain the following:

1. Name of project and description (1-2 paragraphs)
2. Name(s) of participating student(s)
3. Faculty supervisor (signature required)
4. Activities to be undertaken (e.g. list of readings, description of field/lab work, etc.)
5. Schedule of meetings (e.g. one meeting per week with the faculty supervisor)
6. Anticipated Project outcomes
7. Goals and values to student

All Independent Projects are graded CS/CU.

For more information, please refer to the “Independent Reading and Research” Form.