

SUMMER PROGRAMME INFORMATION SHEET 2018

Dear Prospective Summer Students,

You are invited to join us this year at one of the world's most beautiful campus for our exciting **GEM Trailblazer Summer Term programme at NTU** starting from June to July 2018.

Five tracks will be offered this summer :

Track 1: Chinese Language & Cultural Studies

Track 2: Entrepreneurship & Innovation Track

3: Creative Design and Media

Track 4: Success in the Globalised Marketplace

Track 5: New Technologies, NewWorld



Make friends from all over the world

Ranked among the top 1% of universities worldwide, NTU places you in an academically stimulating environment that is both culturally and socially enriching. Our comprehensive and innovative approach towards education and research will help contribute to your future success and inspire you to realise your full potential as an entrepreneurial and technologically-savvy leader.

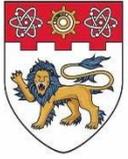
Located in Singapore, NTU is the perfect spot in the heart of a booming Asia-Pacific region to learn and explore the many cultures, languages and races that can be found on this cosmopolitan island.

While you soak up a summer of fascinating Asian cultural experiences as a student, you would have the opportunity to equip yourself with key entrepreneurial skills to venture into Asia, where more than 4.5 billion of the world's population lives.

Application for the summer programme is open to all full-time university students. We welcome you to join some of the brightest minds and talents from around the world in Singapore this summer.

Welcome to the start of a wonderful journey of learning and self-discovery!

Pauline Ho
Deputy Director
& GEM Trailblazer Team Head
Office of Global Education and Mobility
Nanyang Technological University



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ABOUT SINGAPORE

Singapore – A Garden City

Singapore is compact island of only about 682 km², but it has seen extraordinary growth and progress throughout its history since its founding. In just 150 years, Singapore has transformed into a leading vibrant economic hub despite limited land and not having any natural resources .

Singapore is now a cosmopolitan society where people live harmoniously and interaction among different races. Visitors can enjoy the best of Chinese, Malay, Indian and Eurasian cultures through the many traditional and religious festivals that fill the Singapore calendar.

Located in the heart of Asia, Singapore enjoys a robust economy driven by a highly- educated workforce, excellent connectivity, and high standard of living. It tops the world rankings in key sectors of Competitiveness and Business Environment, Economic Performance, Business Legislation and Efficiency .

Singapore has the world's busiest port and one of the world's major oil refining and distribution center. Rated as one the world's easiest place to do business , it is host to more than 7,000 MNCs and 150 international organizations. As a major air, sea and telecommunications hub, its strategic position in Asia offers easy access to more than 300 cities in 60 international destinations within a 7-hour flight radius from Changi Airport, consistently rated as the world's best airport .

For more information on Singapore, you may visit the official Singapore Tourism Website:
<http://www.yoursingapore.com/en.html>



ABOUT NTU

NTU – A Garden Campus

A research-intensive public university, Nanyang Technological University (NTU) has 33,500 undergraduate and postgraduate students in the colleges of Engineering, Business, Science and Humanities, Arts & Social Sciences. In 2013, NTU enrolled the first batch of students at its new medical school, the Lee Kong Chian School of Medicine, jointly with Imperial College London.

NTU is also home to world-class autonomous institutes – the National Institute of Education, S Rajaratnam School of International Studies, Earth Observatory of Singapore, Singapore Centre on Environmental Life Sciences Engineering and the Wealth Management Institute – and various leading research centres such as the Nanyang Environment & Water Research Institute (NEWRI) and the Energy Research Institute @ NTU (ERI@N).

Ranked 11th in the world, NTU is top in Asia and has been placed the world's top young university for the past four years. The University's main campus is frequently listed among the Top 15 most beautiful university campuses in the world.

At any one time, NTU has on campus students from more than 100 nationalities. With more than 300 academic partners, international exchange students are an integral part of our vibrant community.

Besides its 200-ha (500-acre) lush green, residential campus in the western part of Singapore, NTU also has a second campus in the heart of Novena, Singapore's medical district.

For more information, please visit the NTU corporate website at <http://www.ntu.edu.sg>.



PROGRAMME DATES AT A GLANCE

<p>Summer Academic Calendar AY17-18</p>	<p>4-week : 2 Jul 2018 to 27 Jul 2018</p> <p>6-week : 25 Jun to 3 Aug 2018</p>
<p>Summer Programme by Tracks (AY17-18)</p>	<p>Track 1: Chinese Language & Cultural Studies</p> <p>Track 2: Entrepreneurship & Innovation</p> <p>Track 3: Creative Design & Media</p> <p>Track 4: Success in the Globalised Marketplace</p> <p>Track 5: New Technologies, New World</p> <p>For further information on Summer track information: www.ntu.edu.sg/summerNTU</p> <p>or</p> <p>Email : summerntu@ntu.edu.sg)</p>

APPLICATION & NOMINATION

<p>Partner Nomination & Student Application Deadlines:</p>	<p>Partner Nomination</p>	<p>By 30 March 2018</p>
<p>Eligibility</p>	<p>Students may apply via exchange or fee-paying basis.</p> <p>Exchange students – students from any one of NTU’s Exchange Partner Universities who have been nominated by their university as exchange students on a fee-waiver basis.</p> <p>Fee-paying students – students from any one of NTU’s Exchange Partner Universities who have <i>not</i> been nominated as exchange students are automatically eligible for a 60% tuition fee discount;</p> <p><i>OR</i></p> <p>Students from non-partner universities (<i>Universities without exchange agreements with NTU</i>)</p>	
<p>Language</p>	<p>All courses are credit bearing and taught in English except for CF9001 (Chinese Language & Cultural Studies)</p>	
<p>Study Level</p>	<p>Undergraduate or Non-Humanities/Business graduate students</p>	
<p>Summer Course Load *</p>	<p>Minimum: 1 course (3 or 4 Academic Units /AUs) Maximum: 2 courses (up to 8 Academic Units/AUs)</p>	
<p>Credit Transfer</p>	<p>All summer courses are credit bearing. Except for Track 1 (Chinese Language and Cultural Studies) which bears 6 Academic Units, all other summer courses in all tracks bear 3 or 4 Academic Units each and the equivalent of 39 contact hours⁶.</p>	

APPLICATION & NOMINATION

<p>English Proficiency</p>	<p>Students nominated from their home universities are deemed to be able to cope with the curriculum conducted in English at NTU.</p> <p>Proof of English proficiency from students is required for some of the summer courses (refer to the course description on the requirement for English proficiency).</p> <p>Based on our requirements, please refer to the following acceptable qualifications for English proficiency :</p> <ul style="list-style-type: none"> • General Paper of the Singapore Cambridge GCE 'A' Level Examination (sat in 2007 onwards): A, B, C, D, E • General Paper of the Singapore Cambridge GCE 'A' Level Examination (sat in 2006 or earlier): A1, A2, B3, B4, C5, C6 • IELTS: A minimum of 6 for the Writing sub-test • TOEFL: A minimum of 570 (paper) or 90 (internet) or 237 (computer) • SAT1: A minimum of 600 for the Verbal section; or 7 for the Essay section • IB: A minimum of four (4) for Higher Level English or four (4) for Standard Level English • MUET: Band 6 and a minimum of 50 for writing • GEPT: High intermediate Stage 2 consisting of writing and speaking modules (applies to Taiwan universities only)
<p>Course Cancellation</p>	<p>A course may be cancelled if there are less than 10 students registered for the course. Students will be notified by May 2018. In the event of cancellation, you will be offered other courses to consider before the commencement of the programme. If you decide not to register for other available courses, you may be granted a refund of tuition fees paid for the course being cancelled.</p>
<p>Study Exchange Spots (for Partners Information)</p>	<p>One student who completes 1 course in the Summer Programme would be considered as 0.5 spot of exchange. Some exceptions may apply.</p>
<p>Auditing courses</p>	<p>Students are not allowed to audit lectures.</p>

APPLICATION & NOMINATION

<p>Nominations by partner universities</p>	<ol style="list-style-type: none"> 1. Exchange coordinator(s) of partner institutions are only required to email the completed nomination form to summerNTU@ntu.edu.sg. Please indicate your mailing address in the form so as to better facilitate transcripts sending after summer ends. 2. You can include both exchange and fee-paying students in the nomination form. 3. This programme is open to all nationalities.
<p>Student online application process</p>	<ol style="list-style-type: none"> 1. Nominated / Fee-Paying students shall submit an online application through the following link: https://venus.wis.ntu.edu.sg/NG_APP/Pages/Login.aspx <i>[Select "summerNTU(exchange)" or "summerNTU(fee-paying)" from the drop down box in the Student Category field].</i> 2. Mailing of original documents is NOT required. 3. Supporting Documents Needed for Online Application <ol style="list-style-type: none"> a) Latest official transcript in English (signed by the Registrar and should include the university's seal), reflecting all courses taken during the study period in your home university in <u>PDF format</u> (<600 kb) b) Clear, coloured passport-size photo in JPEG format (<60kb; 400(W) x 514(H) pixels) c) Clear & coloured, scanned copy of passport information page (<i>valid for at least 6 months from the commencement of your exchange at NTU</i>) in JPEG format (<200kb) 2. Upon successful submission of online application, students will receive an email acknowledgement of their submission. 3. The result of your application will be made known to applicants via email by May or earlier. Successful applicants will be directed to the NTU Study Abroad Portal for registration. Students should verify that the courses stated in their Offer of Admission (available online) is correct before they accept the offer. 4. Payment of programme fees is made online via credit card on the same Study Abroad Portal.

APPLICATION & NOMINATION

Change of Courses upon acceptance of enrolment

Students are advised to select their summer courses very carefully before putting in their online application. They are to refer to the [summer course information](#) at the summer website or email to summerNTU@ntu.edu.sg for clarification prior to submitting their online application.

The summer courses listed in Offer of Admission would be the final courses that you will read at NTU for the Summer Programme.

NOTE: Please note that **NO ADD-DROP** of courses are allowed once student has accepted the online Offer of Admission.

PROGRAMME SYLLABUS

Track 1: Chinese Language & Cultural Studies (6 AUs)

Date : 2-27 July 2018

Overview	
<p>Delivered by NTU's Confucius Institute, this track is designed to equip students with basic Chinese language skills as well as expose them to the intriguing Chinese cultures. It consists of 2 parts: Chinese language and Chinese Cultural Studies. It will be conducted over 4 weeks, Mondays to Fridays, 9.30am – 5.00pm, at the NTU campus.</p>	
Description	
<p>CF9001</p> <p>Part 1: Confucius Institute Basic Chinese Language</p> <p>(3 AUs)</p>	<p>The Chinese language course is specially designed for students with little or no background on the language to gain insights into the Chinese Language.</p> <p>The contents are topics-based to help you master basic conversational skills for daily usage. Basic reading and writing skills are introduced to help students build up Chinese vocabulary and enhance their learning of the language. Through an experiential learning approach, students will have to perform several assigned activities to enhance their learning and understanding of the language.</p> <p>At the end of the course, students will be able to understand and construct simple phrases, conduct basic conversations, as well as learn how to write basic strokes, character components and single-component characters. They can expect to learn up to 260 Chinese characters, 40 grammatical points and 300 commonly- used sentences.</p>
<p>CF9001</p> <p>Part 2: Chinese Cultural Studies</p> <p>(3 AUs)</p>	<p>The course aims to expose exchange students to the interesting yet unique aspects of Chinese culture found in Singapore. As Singapore is a melting pot of the East and West, students in this course will also be introduced to Malay, Indian and other cultures to help them better appreciate multi-cultural Singapore.</p> <p>By understanding the development of the history of the Chinese in South East Asia, students' understanding of Chinese culture in Singapore will be enhanced through hands-on practical sessions of Chinese ink painting, Chinese paper cutting and Traditional Chinese Medicine.</p> <p>Appreciation of unique Chinese culture will be further enhanced through field trips (e.g. to selected places-of-interest with significant heritage value).</p>

PROGRAMME SYLLABUS

Track 1: Chinese Language & Cultural Studies (6 AUs)

Date : 2-27 July 2018

STRUCTURE	
Topic	Learning Objectives
Introduction	This section introduces the Chinese phonetic system (hanyu pinyin) and the Chinese writing system, the two most fundamental knowledge in learning Chinese. Students will be given a broad overview of the systems, and learn how to apply the basic knowledge through reading and pronouncing Chinese lexical terms.
Common Greetings	Students are introduced to a list of frequently used greetings in daily life. This ranges from polite greetings in special occasions to regular greetings in daily life.
Family & Given Names	Students learnt the basic ways of asking & telling their names. Simple introduction of themselves shall be taught too.
Countries and Nationalities	Students learn the basic ways of asking & telling a person's nationality and origin, as well as polite ways to ask questions and make requests.
Occupation	This section teaches the structure of asking & answering about one's occupation and the ways to affirm/negate questions & comments from others. Both proper and causal ways of saying shall be taught.
Physical Appearance	This section teaches about a person's physical appearance, how to tell a person's height, weight and general appearance. Students will also be taught positive /negative question forms.
Age	Students learnt how to ask and tell a person's age for different age groups (adults, children & seniors).
Locations and Addresses	Students learnt how to ask and tell a person's location and address, as well as the distance between places.
Family and Relationships	This section teaches about family members and how students can ask and tell briefly about their family. Students will also learn how to express their feelings / opinions about something.
Time and Calendar	Students learn the basic ways of asking and telling time and dates, and the polity way of asking. Students will also learn how to tell others what to do at a certain time.
Introductory Terms	This section teaches the basic ways of introducing oneself.

PROGRAMME SYLLABUS

Track 2: Entrepreneurship & Innovation (3 AUs per course)

Dates : 2 July to 27 July 2018

OVERVIEW

Offered by the Nanyang Technopreneurship Centre, this track is designed to equip students with the fundamental entrepreneurship competencies, business acumen and stamina to build and grow businesses. Consisting of four (4) courses, it will cover topics such as entrepreneurship; creativity; writing business plans; business accounting; intellectual property; marketing strategy; risk evaluation; financial projection; securing finances; and managing team members.

Each course will be offered over 10 days (1/2 day daily), Mondays to Fridays, at the Nanyang Technopreneurship Center in NTU.

DESCRIPTION

<p>Course 1: ET9131</p> <p>Entrepreneurship & Marketing for New Ventures</p> <p>(3 AUs)</p>	<p>Learn about creativity, innovation and new venture creation in the field of entrepreneurship. Be also exposed to entrepreneurship marketing where you will learn how to select, develop and evaluate new products, set prices and make the most efficient use of public relations and publicity.</p> <p><i>Course dates: 16 July– 27 July 2018</i></p>
<p>Course 2: ET9132</p> <p>Entrepreneurial Accounting & Finance</p> <p>(3 AUs)</p>	<p>Learn basic accounting concepts, followed by financial concepts and tools relevant to entrepreneurs.</p> <p><i>Course dates: 2 July – 13 July 2018</i></p>

STRUCTURE

Lessons are conducted by business leaders, entrepreneurs, and dedicated academics with entrepreneurial experience. As part of the course, students will also be exposed to social setting where you can meet and mingle with successful entrepreneurs and working professionals in a start-up space in Singapore.

ASSESSMENT

- Class participation
- Team-based project
- Presentation/Examination

PROGRAMME SYLLABUS

Track 3: Creative Design and Media (3 AUs per course)

Dates : 2-27 July 2018

OVERVIEW

Conducted by the College of Humanities, Arts and Social Sciences, this track consists of courses in creative writing, design and media.

Creative Writing courses focus on the various genres of poetry, prose and film as the students recreate and tell their own Asian and Singapore journeys through writing, editing, and new media production tasks. The Animation course will combine teaching basic and advanced animation techniques combined with Asian design approaches for visual development and production design. The Design course endeavours to deepen the design students' skills through designing within the ethos of Asian cultures and heritage.

The courses in the creative design and media track will be conducted over four (4) weeks at the NTU campus. Each course carries three (3) academic units (AU). Students can select up to two (2) courses from this track. Proof of English proficiency is required for students taking all the summer courses in this track.

DESCRIPTION

<p>Course Code: CS0204</p> <p>Basic Media Writing</p> <p>(3 AUs)</p>	<p>The aim of the course is to introduce students to the basics of good writing for the media. It will include writing for print publications, broadcast, commercial needs, as well as advertising and Public Relations. The main focus will be on news writing, as this is a good basis for examining all forms of media writing.</p> <p>It will introduce students to the theory of communication, putting in place the WHY of writing. What are they hoping to achieve with their writing? How can it connect with the intended audience? It will cover the WHAT of writing for the media, looking at the essentials of accuracy, fairness, balance, brevity and responsibility. And it will introduce some principles of HOW media writing is done, from information gathering, to structure and style, to editing and polish of the final text.</p> <p>This course is opened to all students.</p> <p><i>Pre-requisite: Students need to have a strong grasp of English in order to complete the writing assignments for this course.</i></p>
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PROGRAMME SYLLABUS

Track 3: Creative Design and Media (3 AUs per course)

Date: 2-27 July 2018

DESCRIPTION	
<p>Course Code: AAR23C</p> <p>Film Studies (3 AUs)</p>	<p>The course aims to provide an introduction to film appreciation and analysis.</p> <p>The course is divided into two parts. Part One introduces the four elements of film namely mise-en-scene, cinematography, editing and sound that provide the basic vocabulary of film studies. Part Two studies filmic texts as visual forms of story-telling and explores the issues of representation and spectatorship.</p>
<p>Course Code: AAA18K</p> <p>Communication Design (3 AUs)</p>	<p>This basic introduction to design will equip students with the ability to understand Design better.</p> <p>The course will cover basic software handling in Photoshop and Illustrator. It will enable students to familiarise themselves with the right tools in creating the ideal design. Sessions in Design theories and looking at successful design references, would provide a brief historical timeline on the evolution of good Design.</p>
<p>Course Code: AED28B</p> <p>Critical Perspectives on Education (3 AUs)</p>	<p>This course takes a multi-disciplinary approach to the broad concerns and challenges in contemporary educational thought and practice. It introduces students to some basic concepts and key concerns in education and hopes to stimulate critical engagement with students' personal educational experiences and the important issues in educational practice.</p> <p>Topics that will be discussed include the history of education, contemporary beliefs about the values and purpose of education, and issues concerning curriculum and pedagogy. The course will also explore the challenges of tackling matters related to inequality and elitism through education. In the process of exploring these issues, students will reflect on what it takes to become a good teacher.</p>

PROGRAMME SYLLABUS

Track 3: Creative Design and Media (3 AUs per course)

Date: 2-27 July 2018

DESCRIPTION	
<p>Course Code: AAA28D</p> <p>Arts Across the Borders</p> <p>(3 AUs)</p>	<p>A study focused on the discovery and understanding of the artistic heritage, psychogeography and sociocultural significances of a specific part of Singapore. "Borders" in this sense may comprise the historic, contemporary, architectural, cultural, social, political, psychic and imaginary boundaries that define everyday life in the area. A considerable part of the course will be spent doing experiential work (maps, photography, video itself). Course work will involve comprising Situationist-inspired interventions that take as starting point the ways that this particular quarter and its inhabitants perform.</p>
<p>Course Code: AAA18E</p> <p>Drawing</p> <p>(3 AUs)</p>	<p>Drawing investigates the nature of drawing from the perceptual domain, using drawing as a vehicle for visual inquiry to record from observation. The course is for anyone who cannot draw but would like to learn to.</p> <p>At the end of the course, students will be able to draw anything they see.</p>
<p>Course Code: AAA18J</p> <p>Painting with Watercolours</p> <p>(3 AUs)</p>	<p>This course aims to highlight the beauty and ephemeral qualities of watercolour painting.</p> <p>Students will be progressively taught various techniques to achieve different results. There be an emphasis on hands-on practice as well as keynotes on how to appreciate the visual qualities of watercolour paintings.</p>

PROGRAMME SYLLABUS

Track 3: Creative Design and Media (3 AUs per course)

Date: 2-27 July 2018

DESCRIPTION	
<p>Course Code: HA2017 Foreign Policy Analysis (3 AUs)</p>	<p>This course will familiarize the students with the key concepts and theories in foreign policy analysis and the complexity of factors influencing foreign policy decisions, from state and non-state actors, domestic and international structures, to the variety of models, implementation strategies, instruments, drivers and challenges affecting foreign policy choices. The course will combine the discussion of the above topics with practical exercises involving the analysis of illustrative case studies (drawing from relevant historical and contemporary examples), promoting by these means students' engagement with current debates in the field while fostering at the same time their public presentation, argumentation and critical analysis skills.</p>
<p>Course Code: HA3016 China's Foreign Policy (3 AUs)</p>	<p>This course aims to introduce students to contemporary Chinese foreign Policy. It will acquaint students with the various domestic and international actors that shape China's foreign policy since the end of the Cold War; familiarise them with the various dimensions of China's foreign interests, its bilateral and multilateral approaches; and help students identify and critically analyse major trends and challenges facing China's foreign Policy as it rises to great power status.</p>
<p>Course Code: HZ9202 Prose (fiction): Voyages in Fiction (3 AUs)</p>	<p>The course allows students to engage with fiction prose through writing, editing, and production. Students will gain familiarity with various forms and genres of the short story, using that knowledge to hone their writing skills in creating their own portfolios. In the peer-feedback sessions (i.e. 'workshops') students will learn to refine and articulate their editorial sensibilities.</p>

PROGRAMME SYLLABUS

Track 4: Success in the Globalised Marketplace (3 AUs per course)

Dates : 25 June to 3 Aug 2018

OVERVIEW	
<p>Students who wish to gain all-round insights into the global skillsets required for today's competitive market place and the corporate world will be able to select from a range of business and humanities courses in this track.</p> <p>The diverse range of courses include leadership, cultural intelligence, business finance, marketing, accounting, negotiation etc. This track will be offered over 4-6 weeks at the NTU campus. Please refer to the course description for the exact dates of each course.</p> <p>Students can select up to two (2) courses from this track. Proof of English proficiency is required for students taking Business and Management summer courses.</p>	
DESCRIPTION	
<p>Course Code: BU8501</p> <p>Marketing for the 21st Century</p> <p>(3 AUs)</p>	<p>This course is designed for students who have chosen to specialise in disciplines other than business. This course will discuss the basic principles of marketing with a focus on its practice and how this understanding could potentially enhance the students' future performance in their chosen field.</p> <p>A hands-on approach is expected of students and activities have been incorporated to encourage observation and enhance analytical ability. The course will require students to analyse businesses, lead discussions and present your analysis and recommendations on selected organisation.</p> <p>Course dates: 25 Jun – 3 Aug 2018</p>
<p>Course Code: BU8601</p> <p>Fundamentals of Management</p> <p>(3 AUs)</p>	<p>To function in an organisation, technical skills by themselves are insufficient; they have to be supplemented by management training.</p> <p>This course is designed for non-business students and aims to equip them with the knowledge, skills and competence in various aspects of management, including: the role of management and managers; decision making, planning and strategy; managing organisational architecture; managing individuals and groups; and controlling critical organisational processes.</p> <p>Students taking this course are advised not to take BU8101.</p> <p>Course dates: 25 Jun – 3 Aug 2018</p>



PROGRAMME SYLLABUS

Track 4: Success in the Globalized Marketplace

Dates : 25 June to 3 Aug 2018

DESCRIPTION	
<p>Course Code: BU8101</p> <p>Accounting: A User's Perspective</p> <p>(3 AUs)</p>	<p>This course is designed for students who have chosen to specialise in disciplines other than business. This course will discuss the basic principles of marketing with a focus on its practice and how this understanding could potentially enhance the students' future performance in their chosen field.</p> <p>A hands-on approach is expected of students and activities have been incorporated to encourage observation and enhance analytical ability. The course will require you to analyse businesses, lead discussions and present your analysis and recommendations on selected organisation.</p> <p><i>Course dates: 25 Jun – 3 Aug 2018</i></p>
<p>Course Code: BU8201</p> <p>Business Finance</p> <p>(3 AUs)</p>	<p>This course provides non-business and non-accounting students with a broad understanding of the principles and practice of Business Finance/Financial Management. By the end of this course, students would have acquired sufficient finance knowledge to understand and appreciate how various financial decisions can have significant impact on the Profit/Loss and value of firms. They would also be familiar with pricing of stocks and bonds.</p> <p>This is a basic course in finance with emphasis on the major financial decisions made by companies and the valuation of investments made by them. The course starts by examining the various forms of businesses and the importance of interest rates. Time value of money, and the linkage between risk and return, lays the foundation for evaluating the price of bonds and stocks. Students will learn and apply principles of capital budgeting (calculating the profitability of various projects and deciding which one to proceed) and capital structure (financing approved projects by issuing shares or bonds, or using retained earnings). The course concludes with the evaluation of whether a company should use extra cash to pay dividends or repurchase its own shares.</p> <p><i>Course dates: 25 June to 3 Aug 2018</i></p>

PROGRAMME SYLLABUS

Track 4: Success in the Globalized Marketplace

Dates : 2 to 27 July 2018

DESCRIPTION	
<p>Course Code: BU8642</p> <p>Leadership in the 21st Century</p> <p>(3 AUs)</p>	<p>This course aims to facilitate students in learning theoretical knowledge and practical skills (e.g., coaching, teambuilding, goal-setting, and conduct effective meeting).</p> <p>Through the on-line psychometric surveys, ongoing collaborative and peer learning processes, you will gain greater self-awareness about your own leadership style, strengths and weaknesses, and how to develop your leadership competencies throughout your career.</p>
<p>Course Code: BM2506</p> <p>Digital Marketing – Connecting with Customers in Today’s World</p> <p>(4AUs)</p>	<p>This course will provide an overview of conducting marketing through digital media and explore the consequences of deploying these.</p> <p>It will address marketing through digital media starting with fundamentals of digital marketing and strategies for its management. Issues in implementing a digital marketing initiative will be reviewed. Social media marketing will be highlighted due to its current prominence.</p> <p>The course will sport trends and highlight opportunities for those wishing to enter this field. Students will be provided with training and hands-on experience.</p>
<p>Course Code: ABo602</p> <p>Communication Management Strategies</p> <p>(4 AUs)</p>	<p>This course will prepare the students for the written and oral communication challenges they are likely to face in the rapidly evolving business environment. It will help students to present themselves confidently and professionally in the way they speak, write and participate in their chosen profession.</p> <p>Apart from discussing strategies in relational and persuasive oral communication, special emphasis will also be placed on how written messages can be crafted and presented in a concise, structured and effective manner.</p>

PROGRAMME SYLLABUS

Track 4: Success in the Globalized Marketplace

Dates : 2 to 27 July 2018

DESCRIPTION	
<p>Course Code: BU8641</p> <p>Cultural Intelligence: How to be an Explorer of the World</p> <p>(3 AUs)</p>	<p>Cultural Intelligence is the capability to function effectively across national, ethnic and organisational cultures. IQ and EQ are no longer enough, Cultural intelligence is becoming a critical predator for success in the borderless world of the 21st century.</p> <p>This course will provide you with a conceptual framework for cultural intelligence, as well as a set of tools to navigate and explore the world.</p>
<p>Course Code: BU8542</p> <p>Social Marketing: Making This World a Better Place</p> <p>(3 AUs)</p>	<p>Social marketing is the use of business marketing concepts and techniques to change behaviour for the betterment of society. The course is designed for students concerned about social issues and passionate about making a difference. It exposes students to a myriad of social problems plaguing society and acquaints them with marketing concepts, tools and strategies to effect change. Students will work in teams to develop a social marketing campaign to address a social problem.</p>
<p>Course Code: BU8541</p> <p>Sports Marketing - The Marketing of Champions</p> <p>(3 AUs)</p>	<p>The field of sports marketing is capturing the imagination of sponsors and audience worldwide. This course will delve into the industry players and what is at stake in these multi-million dollar events. Consumers are delighting in these adrenaline-charged outings as well. The course will sport trends and highlight opportunities for young people wishing to enter this arena.</p>

PROGRAMME SYLLABUS

Track 5: New World, New Technologies (3 AUs per course)

Date : 2-27 July 2018

OVERVIEW	
<p>This track introduces the world of 3D printing, bio-printing and their applications in the real world; with exciting courses on energy and cyber security being added recently.</p> <p>The courses in this track will be conducted over four (4) weeks at the NTU campus. Each course carries three (3) academic units (AU).</p>	
DESCRIPTION	
<p>Course Code: MA9031</p> <p>3D Printing and Additive Manufacturing: Principles and Applications (3 AUs)</p>	<p>This course aims to provide a general understanding of Additive Manufacturing or 3D Printing as it is more commonly known. It starts with an introduction and the importance of 3D Printing and describes the process chain.</p> <p>The course will equip the students with all the 3D printing systems and technologies, their pros and cons. It will also cover the file format used in 3D printers. More importantly, a comprehensive range of applications and case studies will be covered. Finally, benchmarking, growth and trends will be described.</p>
<p>Course Code: MA9030</p> <p>Bio-printing: Principles and Applications (3 AUs)</p>	<p>This course aims to provide a general understanding of bio-printing. Bioprinting is a multidisciplinary technology that merges the fields of cell culture, biomaterials science and mechanical engineering. This is a new manufacturing paradigm that has huge potential impact in the development of advanced biological tissue models and medical therapeutic products.</p> <p>The course starts with introduction to tissue engineering and scaffolds for tissue engineering. Various bio-printing processes will be explained and the materials for bio-printing will be introduced. The students will also learn about cell sources and 3D cell culture techniques. Other topics include computational design and simulation in bio-printing. Students will also attend a workshop on bio-printing to be exposed to the operation of a bio-printer.</p>

PROGRAMME SYLLABUS

Track 5: New World, New Technologies (3 AUs per course)

Date : 2- 27 July 2018

DESCRIPTION	
<p>Course Code: MA9032</p> <p>Standards and Laser in 3D Printing (3 AUs)</p>	<p>3D printing has garnered significant worldwide attention in recent years and is increasingly being implemented in the industries. The course aims to educate students about the importance of standards and measurement sciences in 3D printing.</p> <p>Students will also be introduced to laser in 3D printing, highlighting the potential of laser technology in fabricating fully functional component directly.</p>
<p>Course Code: MA9001</p> <p>Introduction to Energy (3 AUs)</p>	<p>This course aims to provide student an overview on the energy technology and present energy scenario with respect to demand, availability, environmental concerns, and description of the electricity system.</p> <p>The course will:</p> <ul style="list-style-type: none"> • Introduce briefly each energy source; covering both conventional and renewable sources • The challenges in energy storage and conversion • Efficient energy utilization and energy conservation
<p>Course Code: EE8084</p> <p>Cyber Security (3 AUs)</p>	<p>The course aims to provide students with basic appreciation and understanding of the underlying security issues and implications of the use of various networked systems and electronic devices in the modern cyber-society from a user perspective.</p> <p>The course will:</p> <ul style="list-style-type: none"> • Provide overview of information systems and devices in a global network environment, threats to information systems and devices, security models, and concepts for secrecy, integrity and availability. • Explore other topics of security concerns • Evaluation of secure information systems, security requirements analysis, security management policies, security trends and emerging technologies.

PROGRAMME FEES

Students from NTU Partner Universities will receive an upfront discount of 60% off GEM Trailblazer Summer Tuition Fees.

Below is a schedule of programme fees.

Fees Payable	Non-NTU Partner Fee	Discounted Fees for NTU Partner Universities	For Exchange Students
Tuition Fee for each 3 or 4 AU Course	SGD 2,850 (~ USD 2,110)	SGD 1,110 (~ USD 820)	Waived for up to two 3 or 4 AU course or one 6 AU course
Registration Fee (one-time charge)	SGD 150 (~ USD 110)	SGD 150 (~ USD 110)	SGD 150 (~ USD 110)
Administrative fee (one time charge)	SGD 900 (~ USD 670)	SGD 900 (~ USD 670)	SGD 900 (~ USD 670)
Programme Fees - for one 3 or 4 AU course	SGD 3,900 (~ USD 2,900)	SGD 2,160 (~ USD 1,600)	SGD 1,050 (~ USD 780)
Programme Fees - for two 3 or 4 AU course or one 6 AU course	SGD 6,750 (~ USD 5,000)	SGD 3,270 (~ USD 2,420)	SGD 1,050 (~ USD 780)

- Fees are charged in SGD but translated to USD for the purpose of comparison only
- On-campus accommodation for a 4-week programme is approximately SGD930 (~USD 690).

PROGRAMME FEES INFORMATION

Fees & Other Expenses*

1. Programme fees includes tuition, registration and administrative fees only. It **does not include** airfare and airport taxes, local transportation costs, travel insurance, visas, meals, personal expenses, and on-campus accommodation costs.
2. Nominated students from NTU partner universities on exchange are only required to pay tuition fees to their home institutions. They are still required to pay NTU for registration and administrative fees.
3. Administrative fees includes the use of non-academic or non-obligatory facilities, services and functions at NTU. It also covers campus orientation, cultural & social activities, miscellaneous university fees, and mandatory Group Hospitalization and Surgical Insurance (GHSI) for international students.
4. **Programme fees must be paid within 7 days upon acceptance of the Offer of Admission from NTU.** The programme fee is payable online via credit card.

**All fees quoted are exclusive of 7% Goods and Services Tax (GST).*

ON-CAMPUS ACCOMMODATION

<p>On-Campus Accommodation</p>	<p>Twin-sharing On-campus housing is guaranteed for all incoming GEM Trailblazer Summer students in one of our 24 Halls of Residence in NTU. Students are required to stay on-campus throughout the duration of the programme. Room-mates are allotted randomly by gender.</p> <p>While there are no meal plans and no fully equipped kitchen at the hall for students to cook their meals, students can purchase meals at any one of the numerous Hall of Residence canteens, convenience stores or at the food outlets located all around the NTU campus. Refer to this listing for places to eat around campus.</p>								
<p>Accommodation Cost</p>	<table border="1"> <thead> <tr> <th>Duration of summer programme</th> <th>Twin -sharing (SGD)</th> </tr> </thead> <tbody> <tr> <td>6-week</td> <td>\$1,350</td> </tr> <tr> <td>4-week</td> <td>\$930</td> </tr> <tr> <td>2-week</td> <td>\$510</td> </tr> </tbody> </table>	Duration of summer programme	Twin -sharing (SGD)	6-week	\$1,350	4-week	\$930	2-week	\$510
Duration of summer programme	Twin -sharing (SGD)								
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4-week	\$930								
2-week	\$510								
<p>Room amenities</p>	<p>Rooms are furnished with a bed, mattress, study table, chair, wardrobe, bookshelf and soft board (to pin notes, etc). Each room is fitted with window coverings such as venetian blinds or curtains, lighting and a fan.</p> <p>There are phone jacks and Ethernet connections in each room. You have to bring or buy your own LAN cable for wired LAN connection in the rooms. WIFI is available at the common areas in the halls of residence. Other fittings may be provided and these vary from hall to hall.</p> <p>Note: Bed-linen, blankets and pillows will NOT be provided. Students will have to purchase their own bed-linen, pillows and blankets when they arrive in NTU. Refer to this suggested packing list.</p>								
<p>Suggested personal items to bring or buy</p>	<ul style="list-style-type: none"> • Shower tote bucket • Toiletries • Towels, washcloths (recommended 2 sets) • Shower shoes • Single-size bed sheets/linen, blanket, pillow, pillow cases • Laundry bag, detergent • Clothes hangers and pegs • Laptop, internet Cable • Padlocks 								

ON-CAMPUS ACCOMMODATION

Check-in and Check-out dates at NTU's Halls of Residence	Check-in date	Check-out Date
	4-week programme: 27 June 2018 6-week programme: 20 June 2018	4-week programme: 28 July 2018 6-week programme: 4 Aug 2018
Operating Hours of the Halls of Residence Administrative Office	Mondays - Thursdays: 8:30 am - 1:00 pm, 1:45 pm - 5:30 pm Fridays: 8:30 am - 1:00 pm, 1:45 pm - 5:00 pm Saturdays, Sundays & Public Holidays: Closed Students arriving outside of Hall Administrative office hours are advised to seek alternative accommodation on the night of their arrival until the Hall office opens in the morning.	
Period of stay for on-campus accommodation	Please note that should your arrival fall outside of the above operating hours, you will not be able to check-in. You have to seek alternative accommodation on the night of your arrival until the Hall offices open in the morning. Period of stay in the hostel is determined by the approved period of programme as stipulated on the Letter of Enrolment and Acceptance issued by NTU.	



NTU Hall of Residence



Hall Surroundings



Hall of Residence Canteen



Twin-sharing rooms

NTU ACADEMIC INFORMATION

<p>NTU Academic Unit System</p>	<p>NTU's courses are assigned credits based on the Academic Unit(AU) System. For the GEM Trailblazer Summer Programme, the number of academic units are as follows:</p> <p>Track 1: Chinese Language & Cultural Studies (6AUs) Track 2: Entrepreneurship and Innovation (3 AUs per course) Track 3: Creative Media and Design (3 AUs per course) Track 4: Success in the Globalised Marketplace (3 or 4 AUs per course) Track 5: New World, New Technologies (3 AUs per course)</p> <p>For more information, please refer to the link</p>																								
<p>Grading System</p>	<p>NTU uses the Grade Point Average (GPA) system in awarding grades.</p> <table border="1" data-bbox="703 1317 1177 1809"> <thead> <tr> <th>Letter Grade</th> <th>Grade Point</th> </tr> </thead> <tbody> <tr><td>A+</td><td>5.0</td></tr> <tr><td>A</td><td>5.0</td></tr> <tr><td>A-</td><td>4.5</td></tr> <tr><td>B+</td><td>4.0</td></tr> <tr><td>B</td><td>3.5</td></tr> <tr><td>B-</td><td>3.0</td></tr> <tr><td>C+</td><td>2.5</td></tr> <tr><td>C</td><td>2.0</td></tr> <tr><td>D+</td><td>1.5</td></tr> <tr><td>D</td><td>1.0</td></tr> <tr><td>F</td><td>0.0</td></tr> </tbody> </table>	Letter Grade	Grade Point	A+	5.0	A	5.0	A-	4.5	B+	4.0	B	3.5	B-	3.0	C+	2.5	C	2.0	D+	1.5	D	1.0	F	0.0
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C	2.0																								
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D	1.0																								
F	0.0																								
<p>Academic Transcripts Delivery</p>	<p>The original copy of the GEM Trailblazer Summer student's academic transcript will be mailed directly to their Home University after the completion of the summer programme within <u>two (2) months</u> from the date of release of examination results by NTU.</p> <p>A scanned copy of the academic transcripts will be emailed to the²⁷ Student Exchange Office of the Partner University for record.</p>																								

ENTRY REQUIREMENTS

Student Pass

All international students admitted in the summer programme are required to apply for a Student's Pass, unless they have selected the 2-week programme (which has only 3 or 4 Academic Units). Instructions for applying a Student Pass will be provided in the Offer of Admission once the applicant has been successful.

Upon acceptance of the offer of admission, students will be directed to apply for the In-Principle Approval (IPA) letter that will enable all international students to enter Singapore and obtain their student pass once they are in Singapore.

Entry Visa

Students registered for the 2-week programme may require an entry visa to enter Singapore. They can check against this link on [Singapore's Immigration and Checkpoints Authority \(ICA\)](#) for the list of countries that require an Entry Visa. If required, students should start applying at the above website at least 2-4 weeks before their arrival.

Note: To ensure that students have the required visa entry requirements, students are advised to arrange for their flights only after the approval of their student pass application.

OTHER USEFUL INFORMATION

<p>Approximate living costs</p>	<p>The cost of living you incur will depend on your lifestyle.</p> <p>On average, students should budget for an estimated amount of SGD1,000-1,500 per summer course for basics such as food, transportation and some personal expenses. This amount does not include personal holiday travels, entertainment and other incidentals.</p>
<p>Group Hospitalization & Surgical Insurance</p>	<p>Falling ill or being hospitalized in Singapore can place an unexpected financial burden on international students, who are not entitled to medical subsidies that Singapore citizens enjoy. A <u>compulsory</u> NTU Group Hospitalization & Surgical Insurance (GHSI) cover is included in the summer programme fees for your peace of mind while studying in Singapore.</p> <p>Besides providing island-wide outpatient medical coverage, the GHSI allows you to obtain a Letter of Guarantee to waive the requirement to put up any monetary deposits should you be admitted to a government/restructured hospital in Singapore.</p>
<p>On-campus Health Care</p>	<p>Medical and counselling services are available on campus to cater to your health and wellness needs.</p> <p>There are also clinics near campus should you feel unwell after office hours. You may refer to the Group Hospitalisation and Surgical Insurance to find out what is covered under the scheme.</p>
<p>Medical Declaration</p>	<p>It is mandatory for all incoming students to <u>highlight any past or present medical conditions</u> in their online application.</p> <p>This information is for the purpose of the student's well-being, such that relevant support may be rendered to ensure a positive immersion experience at NTU and that your living needs are met adequately.</p>

OTHER USEFUL INFORMATION

<p>Facilities / services available to students on campus</p>	<ul style="list-style-type: none"> • Library • Wide range of sports and recreation facilities • Medical Services • Campus-wide Wi-Fi • High-speed LAN access in-room • Bank and ATMs • Hairdresser • Supermarkets • Student’s Global Lounge • Restaurants, fast food chains and other food outlets around campus (click here for more information) • Canteens located at most Halls of Residence or within walking distance
<p>Any bank on NTU campus?</p>	<p>Yes, there is a bank (Overseas Chinese Banking Corporation – OCBC Bank) with 24-hour ATM on campus.</p> <p>Students may also visit the Jurong Point Shopping Centre (www.jurongpoint.com.sg), which is located 10 minutes from NTU campus, for their banking needs.</p>
<p>Can I open a bank account while studying at NTU?</p>	<p>The local banks (including OCBC) require the student’s exchange period to be at least 6 months in order to be eligible to open an account in Singapore.</p>
<p>Acceptable credit cards/bank cards in Singapore</p>	<ul style="list-style-type: none"> • Visa • Mastercard • American Express • Diners Club • Maestro • PLUS <p>You may withdraw cash from most ATM machines displaying the above services, as long as you have the required PIN and service enabled on your credit/debit card. You should check with your card issuing bank before you leave your home country to enquire about overseas usage in Singapore.</p>

WITHDRAWAL POLICY

FOR EXCHANGE STUDENTS

All Exchange Students admitted on tuition fee-waiver basis who wish to withdraw from the GEM Trailblazer Summer Programme should inform their Home University Exchange Coordinator AND the GEM Trailblazer Team, in writing, of their decision to withdraw.

Notice of Withdrawal	Refund Outcome
30 days or more prior to the start of the student's GEM T summer programme	Registration and Administrative Fee will be refunded.
Less than 30 days before the start of the student's GEM T Summer programme	Only the Registration Fee will be refunded. Administrative Fees <u>will NOT be refunded</u> . For Exchange coordinators - This will not count towards exchange.
After Arrival at NTU	The Registration and Administrative Fee will NOT be refunded. For Exchange coordinators - This will count towards exchange. Depending on when the student checks out, only the unconsumed period of accommodation (counted by 7-day weekly billing cycle) will be refunded.



WITHDRAWAL POLICY

FOR FEE-PAYING STUDENTS

All fee-paying students who wish to withdraw from the GEM Trailblazer Summer Programme must inform GEM Trailblazer Office in writing of their decision to withdraw.

Notice of Withdrawal	Refund Outcome
Withdrawal notice received BEFORE the application deadline.	<ul style="list-style-type: none"> • The Tuition and Registration fees will be refunded • The Registration Fee of S\$150 will not be refunded
Withdrawal notice received AFTER the application deadline and 30 or more days months prior to the start of the student's Summer Programme.	<ul style="list-style-type: none"> • 50% of the Tuition and Administrative fees will be refunded • The Registration Fee of S\$150 will not be refunded
Withdrawal notice received AFTER the application deadline but less than 30 days before the start of the student's Summer Programme.	<ul style="list-style-type: none"> • No refund on the Programme Fees (Tuition Fees, Registration and Administrative Fees)

CONTACT DETAILS

<p>GEM Trailblazer Summer Programme Team</p>	<p>Ms. Pauline Ho <i>Deputy Director</i> +65- 6790-5088 paulineho@ntu.edu.sg</p> <p>Mr. Ernest Chng <i>Senior Assistant Manager</i> +65 6592 3242 summerNTU@ntu.edu.sg</p>	<p>Ms. Priscilla Lee <i>Assistant Director</i> +65-6513-2087 summerNTU@ntu.edu.sg</p> <p>Ms. Radha Chillavaras <i>Senior Executive</i> +65-6790-6427 summerNTU@ntu.edu.sg</p>
<p>GEM Trailblazer Address</p>	<p>Office of Global Education and Mobility 42 Nanyang Avenue (Behind Student Services Centre, Level 2), Singapore 639815</p> <p>Web: www.ntu.edu.sg/summerNTU Email: summerNTU@ntu.edu.sg</p>	