

## BACHELOR OFSCIENCE (HONOURS)

- **▲** Computing and Information Systems
- Creative Computing



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## **WELCOME**MESSAGES



Gain a Global
Edge at **SIM GE**for the global
workplace in the
future economy

Welcome to SIM Global Education (SIM GE) - A global campus with over 10 top ranking international universities from the UK, the US and Australia. As a premier institution of higher learning, we are a gateway to the world with a wide range of academic programmes to choose your ideal learning pathways from.

SIM GE is a leading private educational institution in Singapore, reputed for high standards and a vibrant student experience. Founded in 1964 by the Singapore Economic Development Board as part of the SIM Group, it has over 50 years of strong track record in developing quality manpower.

At SIM GE, we are committed to delivering a holistic education to empower individuals in their respective fields and communities. We also aim to inspire passion in them to excel and to strive for bigger goals.

In today's fast-changing world, the ability to adapt and evolve will give you an edge. With our multicultural learning environment and diverse campus life, you will gain the skills, knowledge and insights you need, to be career ready. These will enable you to gain a Global Edge as you make your mark in the global workplace of the future.

I invite you to come and be a member of our fraternity of over 133,000 graduates and alumni and 20,000 students, and discover how, like them, you can fulfil your aspirations by embarking on an exciting educational journey with us.

**Dr Lee Kwok Cheong** *Chief Executive Officer*SIM Global Education



Academic direction for programmes is provided by Colleges of the University of London

Since the founding of the University of London, 180 years ago, we have provided access to high quality education and in so doing have contributed to the development of higher education worldwide. Within this context our relationship with SIM GE is one that is extremely important to us and one that we are truly proud of.

Over the last 30 years, more than 31,500 students have successfully completed their study programmes with SIM GE and graduated with a University of London degree. It is true to say that our two institutions have helped transform the higher education landscape in Singapore.

Studying for a University of London degree or diploma at SIM GE is an excellent combination. Graduates not only gain a high quality, internationally recognised qualification from the University of London, but they also benefit from a wide range of extra-curricular activities and careers guidance offered by SIM GE. This means that University of London-SIM graduates are sought after by top employers in Singapore and around the world.

#### Professor Sir Adrian Smith FRS Vice-Chancellor University of London



The Computing programmes combine leading-edge practice with solid underlying principles

I would like to welcome you to our programmes, and the exciting study of computing, based on learning by doing, independence and creativity. You will gain core knowledge and skills as a foundation for innovative applications and development. You will find us stimulating, challenging, flexible, and relevant. We attract a diverse range of students around the world, and our global network is one of our greatest strengths.

International Programme students are examined to the same standards as their counterparts at Goldsmiths, and in 2016, SIM GE saw eight graduates with first class honours for Computing and Information Systems and Creative Computing, while the top mark for nine papers across the world

were achieved at SIM GE. This is an outstanding achievement, and the result of individual hard work and dedication, backed up by first-rate support. As a regular visitor, I look forward to working with you at SIM GE – and, if you later choose to transfer to Goldsmiths, you are assured of a friendly welcome in London. Finally, having talked with SIM GE graduates over many years, I am confident that the knowledge and skills you will acquire will enable you to fast-track your career in IT.

#### **Dr Maggie Cooper**

Director
University of London International
Computing Programmes
Goldsmiths

## **SIM** GROUP



### SIM Global Education A leading private education institution

SIM Global Education is the global education arm of the Singapore Institute of Management (SIM Group). Founded in 1964 on the initiative of the Economic Development Board to support Singapore's industrialisation, the SIM Group also offers its services through two other educational brands: SIM University (UniSIM) and SIM Professional Development (SIM PD).

SIM Global Education (SIM GE) offers quality overseas academic programmes awarded by top ranking and reputable universities from the United Kingdom, the United States and Australia. SIM GE's approach towards a holistic education is to develop students with a global edge for the global workplace with ability and adaptability for employability in the future economy. With more than 133,000 alumni and 20,000 students from over 40 countries, SIM GE is a leading private education institution in Singapore. THE GLOBAL ABILITY ADAPTABILITY EMPLOYABILITY

COUNTRIES

133,000

ALUMN



#### Why Study at SIM GE?

#### **▲** AWARD-WINNING INSTITUTION

Top 3 Best Private Institute for eight consecutive years in the annual AsiaOne People's Choice Awards.

#### **▲ THROUGH-TRAIN PATHWAY**

Over 80 full-time and part-time academic programmes through over 10 partner universities at diploma, undergraduate and postgraduate levels.

#### GLOBAL PERSPECTIVES & INSIGHTS

Exposure to diverse cultures and a global network of faculty and peers bring broader perspectives to learning.

#### **▲ STUDENT-CENTRIC CAMPUS**

Wi-Fi enabled campus with comprehensive facilities for students' academic and recreation needs.

#### **▲ VIBRANT STUDENT LIFE**

Participate in over 70 student clubs with year-round activities in arts, culture and sports.

#### ■ DEDICATED STUDENT SUPPORT

Support services include academic support at Student Learning Centre, a dedicated Student Services Centre, Student Wellness Centre, and initiatives such as financial assistance schemes and counselling services.

#### ■ BOND-FREE SCHOLARSHIP & BURSARY

Scholarships are available to students who excel in academics, sports or arts.

#### **▲ NETWORK FOR SUCCESS**

A multitude of learning resources and networking events for students and graduates offered through SIM GE platforms and SIM Membership.

#### **▲ ALUMNI ENGAGEMENT**

Stay connected even after graduation – benefit from events organised by SIM GE Alumni Office or volunteer your time through initiatives such as Structured Alumni Mentorship.

## **STUDENT** LIFE

Project 1095

Ability » Adaptability » Employability

hours in 1 day...

**365** days in 1 year...

1095 days in 3 years...

#### Seize the now.

Make the most of your time in SIM GE.

#### **CAREER DEVELOPMENT**

Raise your employability quotient through industry internships or career-readiness initiatives like the Talent Development Programme, Career Chapters, Mentorship Programme offered by Career Connect.

#### **GLOBAL LEARNING**

Gain international exposure through overseas academic exchange programmes, study trips, internships and workshops.

#### STUDENT DEVELOPMENT

Sharpen your leadership and social skills or pursue your passion in the arts and sports with more than 70 student councils and clubs available.

#### STUDENT CARE

Boost your well-being in healthy living and wellness programmes, or learn more from peer mentors at our dedicated Student Wellness Centre.



Grooming achievers outside the classroom



Global exposure and learning opportunities



Career fair offering internships and jobs

# **STUDENT**LEARNING CENTRE



### The Student Learning Centre

(SLC) is a one-stop centre for student academic support. Boost your academic performance with our SLC resources.

#### PEER-ASSISTED LEARNING (PAL)

A student-to-student support network that provides academic assistance for selected modules.

#### **WORKSHOP SERIES**

Attend complimentary workshops on academic writing, study skills and personal effectiveness to hone effective learning skills.

#### **PROFESSIONAL SKILLS**

Develop professional skills that are highly valued by employers through well-structured training programmes.

#### **CONSULTATION SERVICES**

Work with our advisors to improve your skills in written and oral presentation.



Peer-Assisted Learning (PAL) in session



Digital Literacy Workshop



Student Learning Centre



A degree from the University of London is a mark of excellence, respected by employers and universities worldwide. This is because the University of London is one of the world's leading universities, internationally recognised for its high academic standards. This reputation is based on the outstanding teaching and research of its 18 world-class Member Institutions and 9 specialist institutes.

Since 1858, University of London degrees have been accessible to students all over the world through the University of London International Programmes. Alumni of the University of London International Programmes have gone on to shape our world. These include seven Nobel Prize winners, leaders of Commonwealth countries, government ministers, renowned authors, academics, judges and business leaders. Today, the University of London International Programmes is truly international in character with over 50,000 students in more than 180 countries

Academic direction for all of the programmes offered through the University of London International Programmes is provided by Colleges of the University. Academics at these Colleges develop the syllabuses, prepare the study materials, and are responsible for the assessment of students. This means that students benefit from the academic rigour and leading-edge research undertaken by the Colleges. It also helps to ensure that University of London qualifications are of the same high academic standard, however they are achieved.

On successful completion of your studies you will be awarded a University of London qualification. The certificate you receive will state that you were registered with the University of London and will include the name of the University of London College or Colleges that conducted the examinations.

Find out more about the University of London International Programmes at:

www.londoninternational.ac.uk



# Over **50,000**University of London International Programmes students worldwide

#### **Reasons to Study with SIM-UOL**

#### **▲ PRESTIGIOUS INSTITUTION**

Well-established reputed institutions with UOL as one of the oldest UK universities and SIM GE as one of the best private institutes in Singapore

#### **✓** SIM GE - AFFILIATE CENTRE

A reflection of SIM GE's sustained commitment to high standards of teaching, support and administration

#### ▲ THROUGH-TRAIN PATHWAY

From Foundation to Bachelor's and postgraduate programmes

#### **▲ RIGOROUS CURRICULUM**

High standards with academic direction set by well-known Colleges - LSE, UCL and Goldsmiths

#### ■ EFFECTIVE TEACHING METHODS

A combination of lectures, tutorials, study skill sessions, revision workshops, and preliminary examinations

#### ▲ ACADEMIC AWARDS AND PRIZES

Annual Award Ceremony held to recognise students' Academic Achievements

#### **▲ LSE SUMMER SCHOOL**

Scholarships are available on an annual basis

#### ▲ LAUNCH PAD FOR FURTHER STUDIES

Between 2010 and 2016, over 110 SIM-UOL alumni have progressed to postgraduate studies in the UK.

#### ✓ PROVEN TRACK RECORD

Over 1,200 SIM-UOL First Class Honours graduates to-date, with many alumni holding senior positions

#### ✓ INTERNATIONALLY RECOGNISED

Worldwide recognition of UOL degrees; a community of over 31,500 SIM-UOL alumni

#### **▲ HIGH EMPLOYABILITY**

The overall full-time permanent employment rate for Computing and Information Systems is 89.3% (SIM 2016 Graduate Employment Survey).



Kenneth Koh (left) and Amos Yeo are two Singapore students who completed at least a year of study at SIM GE and transferred to Goldsmiths in London to complete their degree. Both graduated from the on-campus programme in 2015 with First Class Honours. Amos is now doing a PhD at Goldsmiths.





Founded in 1891, Goldsmiths is internationally renowned for teaching and research in creative, cultural and cognitive disciplines. Its distinctive attitude to learning encourages students to explore ideas, challenge boundaries, investigate fresh ways of thinking, and stretch their minds intellectually and creatively.

The Department of Computing sees interdisciplinarity to be the core of its identity, applying computer science to the arts, media, music, design, games, and business. Our programmes combine theory and practice

as staff are both experts and practitioners in their field, engaged in developing cutting-edge technologies.

Goldsmiths has been responsible for the academic direction of the Bachelor of Science (Honours) in Computing and Information Systems since 1992; the Bachelor of Science (Honours) in Creative Computing since 2007.

Visit www.youtube.com/ unioflondon to hear more about the University of London International Programmes.





Accenture Company Visit



Academic Achievers 2016



Lim Jiun Hong, a Computing and Information Systems alumnus, was one of the speakers at the Achievers' Event 2016. He completed his master's at the London School of Economics and Political Science in the UK and is currently working at GovTech.

# BACHELOR OF SCIENCE (HONOURS) IN COMPUTING AND INFORMATION SYSTEMS

#### **Objectives**

The Bachelor of Science (BSc) (Honours) in Computing and Information Systems programme is designed for a wide range of students, including those who wish to pursue a career in management, software engineering or systems analysis and design, based on a strong technical competence in information systems. It also provides a path for those who wish to pursue higher degrees in the computing and information technology area. No prior knowledge of computing is assumed.

Blending technical computing material with systems design content set in a business computing framework, the programme prepares you for the real world. You learn to turn a proposal into a working system that can develop and meet ever-changing needs in today's competitive environment.

#### **Modules**

LEVEL 1	CO1102 CO1108 CO1109 CO1110	Mathematics for computing Information systems: foundations of e-business Introduction to Java and object-oriented programming Introduction to computing and the Internet
LEVEL 2	CO2209 CO2220 CO2222 CO2226	Database systems Graphical object-oriented and Internet programming in Java Data communications and enterprise networking Software engineering, algorithm design and analysis
LEVEL 3*	CO3310 CO3311 CO3318 CO3323 CO3326 CO3348 CO3353 CO3355	A half units from the following half units:  Artificial intelligence  Neural networks Information systems management Electronic commerce  Computer security Interaction design Software engineering project management (CO2226) Advanced graphics and animation  mpulsory project: Project (full unit)

<sup>\*</sup> SIM reserves the right to change the units offered based on relevance, practicality and demand, in consultation with Goldsmiths, University of London. For certain Level 3 units, pre-requisites or corequisites may be required. Please refer to the units indicated in the brackets.

# BACHELOR OF SCIENCE (HONOURS) IN CREATIVE COMPUTING

#### **Objectives**

The Bachelor of Science (BSc) (Honours) in Creative Computing is a unique course that combines the development of artistic creativity and technical computer expertise to produce the next generation of creative computing professionals. The focus of the course is the creative thinking which grows out of the juxtaposition of science and art.

This programme is aimed at those who may want to work at the intersection of technology and art, web development, animation, games, mobile and other applications, and the development of new creative software applications. It is also appropriate for artists, musicians, film-makers and others who wish to apply their creative thinking to original software development, and for computing professionals who wish to include a creative component in their work.

#### **Modules**

CO1102 CO1109 CO1110 CO1112	Mathematics for computing Introduction to Java and object-oriented programming Introduction to computing and the Internet Creative computing 1: image, sound and motion
CO2209 CO2220 CO2226 CO2227	Database systems Graphical object-oriented and Internet programming in Java Software engineering, algorithm design and analysis Creative computing 2: interactive multimedia
Three compulsory half units:  CO3346 Sound and music CO3348 Interaction design CO3355 Advanced graphics and animation  PLUS three half courses chosen from the following: CO3310 Artificial intelligence CO3311 Neural networks CO3318 Information systems management CO3323 Electronic commerce CO3326 Computer security CO3353 Software engineering project management (CO2226)  PLUS a compulsory project: CO3320 Project (full unit)	
	CO1109 CO1110 CO1112  CO2209 CO2220 CO2226 CO2227  Three con CO3346 CO3348 CO3355  PLUS thre CO3310 CO3311 CO3318 CO3323 CO3323 CO3323 CO3323

<sup>\*</sup> SIM reserves the right to change the units offered based on relevance, practicality and demand, in consultation with Goldsmiths, University of London. For certain Level 3 units, pre-requisites or corequisites may be required. Please refer to the units indicated in the brackets.



SIM-UOL Freshmen Orientation Day, July 2016

## PROGRAMME INFORMATION

#### **Duration and Intake**

Programme Duration	Intake	
3 Years Full-time	September	

#### **Mode of Delivery**

Classroom learning comprising:

- Computer simulation
- Lab work
- Lectures
- · Online learning
- Tutorials
- Workshops

Each lesson is typically 3 hours.

#### **Assessment**

- · Assignments / Projects
- Written Exams

**Candidature Period:** 3 to 8 years There will not be any refund or recourse should the student fail to complete the programme within the candidature period.

#### Minimum Class Size: 25

In the event that the class cannot commence due to low take-up rate, applicants will be informed within one month before programme commencement.

#### **Career Prospects**

In recent years, our graduates have been employed by well-recognised organisations which include Barclays Capital, IDA, A\*Star, ST Electronics, HP, Dimension Data, NCS, Stone Forest IT, ST Kinetics, Accenture and BHP Billiton.

Creative Computing graduates can aim to work in these sectors: animation, computing in the cultural sector, IT and creative computing, and web development.

#### **Admission Criteria**

For general entrance requirements, an applicant must have the following qualifications:

- Be at least 17 years old in the year of registration with University of London
- Have passes in two subjects at GCE 'A' Level (or H2 level), and at least three subjects at GCE 'O' Level (at not less than grade C)
- Have at least equivalent to B grade at GCE 'O' Level Mathematics\*
- Provide proof of competence in English acceptable to the University, such as a pass (Grade C6 and above) in the GCE 'O' Level English Language examination

Other qualifications to satisfy the general entrance requirements:

- SIM Diploma in Accounting, Diploma in Banking and Finance, Diploma in International Business or Diploma in Management Studies
- · Polytechnic diplomas
- University of London Certificate of Higher Education in Social Sciences
- University of London International Foundation Certificate (IFP)
- Teaching certificate from NIE/ NTU
- NUS High School Diploma
- NCC Education International Diploma in Computer Studies (IDCS)
- NCC Education, International Advanced Diploma in Computer Studies (IADCS)
- TMC Computer School Higher Diploma in Computer Studies

\*Computing and Statistics do not count as Mathematical subjects

Please refer to SIM GE website for the full admission criteria, and the General Entrance Requirements for international students. Alternatively, please refer to the University of London website for full information:

www.londoninternational.ac.uk/am-i-qualified

"The Computing and Information Systems programme has provided me with the technical and practical knowledge to prepare me as an IT professional." (2017)

#### Chua Wei Yi

First Class Honours Graduate, Class of 2015 BSc (Hons) in Computing and Information Systems

Application Consultant, NCS Pte Ltd

#### Accreditation of Prior Learning (APL)

Candidates with diploma qualifications may apply to the University of London for APL or credit transfer. APL may be awarded for up to four units Levels 1 and 2. The qualification on which your application is based must have been obtained within five years preceding the application. You cannot be considered for APL from a particular unit if you have already entered the examination for that unit.

APL may be awarded if you have previously studied a similar subject in the same depth, at degree level, and you achieved good marks in the corresponding examination.

The granting of APL is at the discretion of the University. The University reserves the right to review its APL policy in respect of the Bachelor of Science (Honours) in Computing and Information Systems or Bachelor of Science (Honours) in Creative Computing each year.

#### Discretionary Accreditation of Prior Learning (APL)

A fee of £89 (per full unit) is charged by the University of London for processing discretionary APL. Fees are subject to annual change.

In order for an application to be considered a student must normally have successfully completed the whole of the qualification on the basis of which he or she is claiming APL and have already received the final award for that qualification. An application from a student who has not yet received his or her award will be considered under the rules governing APL at the time that the award is finally made and not at the time that the application for APL was submitted

If discretionary APL is granted, please inform SIM immediately so that a pro-rated refund of unattended classes for that unit may be given to you.

#### Automatic Accreditation of Prior Learning (APL)

APL can be awarded automatically based on certain polytechnic qualification. The APL application fee is not required for APL awarded in this category. The APL is subject to review and changes each year. Please refer to SIM GE website for a list of diplomas that can be awarded the automatic APL.

#### **Programme Fees**

SIM Programme Fees	S\$26,700
UOL Fees	£6,550
Estimated Total Programme Fees	S\$38,200

Fees are inclusive of prevailing GST and payable at the start of each academic year. Fees do not include textbooks.

These estimated fees are based on the following components:

- SIM Programme Fees: Based on 3-year full programme and is calculated on a per subject basis.
- UOL Fees: Consists of registration, continuing registration and examination fees, and administrative fees payable to RELC Examinations Bureau. These fees are payable annually and subject to yearly increase.

Please refer to SIM GE website for the latest fees.



"Studying at SIM-UOL had been fulfilling and enriching, with professional lecturers ready to guide and mentor us beyond the classroom. We are also exposed to how the knowledge gained is applicable in the working world, thus empowering us to be career ready." (2016)

#### **Png Jian Zhong**

First Class Honours Graduate, Class of 2013 BSc (Hons) in Computing and Information Systems

Business Analyst, Zalora



"My journey undertaking the programme was very enriching and fulfilling. I believe that the knowledge and experience acquired during my time here have helped ready myself for the next phase of my life. Thanks to SIM GE and all the lecturers who have helped me during my journey here!" (2016)

#### **Clement Lim Jun Feng**

First Class Honours Graduate, Class of 2016 BSc (Hons) in Computing and Information Systems

MS in Business Administration (Management Information Systems), Korea University



"Creative Computing is a challenging and interesting programme. It has enabled me to view technology on a whole new level and imparted me with relevant skills and knowledge, vital for a career in the IT sector. Observing the use of algorithms being applied to Artificial Intelligence is really exciting and it allows us to think further. This degree has definitely laid a strong foundation for my life." (2016)

#### Nalini D/O Sandrasekaran

Second Class Honours (Upper Division) Graduate, Class of 2016 BSc (Hons) in Creative Computing

Software Engineer, Tata Consultancy Services

### APPLICATION AND ADMISSION

#### **How to Apply**

Visit www.simge.edu.sg/ge/how-to-apply for the application process, list of required supporting documents, documents verification process and more information.

For an international applicant applying to a full-time programme, you must submit an online Student's Pass (STP) application form. Your Student's Pass application is subjected to approval of the Singapore Immigration & Checkpoints Authority (ICA).

#### **Application Fees**

An application fee is payable for each application form that is submitted. This fee (inclusive of the prevailing GST) is non-refundable and non-transferable. The fee will be fully refunded only if the intake does not commence. Unpaid applications will not be processed.

Payment Mode: MasterCard/Visa credit cards or eNETS

Application	Local	International
Fees	applicants	applicants
	S\$96.30	S\$321.00*

\*This does not include all fees related to Student's Pass application.

#### **Private Education Act**

Under the Private Education Act, legislated in December 2009, a Council for Private Education was set up to regulate the private education industry in Singapore. From 03 October 2016, the Council for Private Education became part of a new statutory board - SkillsFuture Singapore (SSG). Under the new structure, the SSG Board appointed the Committee for Private Education (CPE) to carry out its functions and powers relating to private education under the Private Education Act.

All Private Education Institutions (PEIs) are required to comply with the regulations under the Act in order to continue operations.

Following are the requirements which Singapore Institute of Management Pte Ltd (SIM PL) has put in place:

#### **PEI-Student Contract**

CPE, in aiming to enhance the confidence of students and their parents in the quality of education in Singapore, has stipulated that all PEIs must sign a PEI-Student Contract with students. The contract sets out the terms and conditions governing the relationship between the student and PEI. SIM PL will honour all terms and conditions in the contract and in all communication materials.

Students may request for a copy of the PEI-Student Contract from SIM PL or view it on the CPE website (www.cpe.gov.sg).

#### **Cooling-Off Period**

There will be a cooling-off period of 7 working days after signing the PEI-Student Contract. Students have the right to cancel the contract within the 7 working days and be refunded the highest percentage of the fees already paid if the students submit written notice of withdrawal to SIM PL within the cooling off period (refer to Clause 2.3 of PEI-Student Contract). After the cooling-off period, SIM PL's refund policy will apply.

#### **Fee Protection Scheme**

SIM PL adopts a compulsory Fee Protection Scheme (FPS) to protect the paid fees of both local and international students. The FPS serves to protect the student's fees in the event that the PEI is unable to continue operations due to insolvency, and/or regulatory closure. In addition, the FPS protects the student if the PEI fails to pay penalties or return fees to the student arising from judgments made against it by the Singapore courts.

SIM PL has appointed Etiqa Insurance Pte. Ltd and Lonpac Insurance Bhd as our FPS insurance providers. Under the FPS insurance scheme, students' fees will be insured by the insurer preassigned by SIM PL. In case of events as stated above, students will be able to claim their paid fees from the respective FPS insurance provider.

More details of the FPS can also be found in the FPS Instruction Manual, available at www.cpe.gov.sg.

#### **Medical Insurance**

SIM PL has in place a group medical insurance scheme for all its students. This medical insurance scheme will have a minimum coverage as follows: an annual coverage limit of \$\$20,000 per student, covers up to B2 ward in government and restructured hospitals and provides for 24 hours coverage in Singapore and overseas (if student is involved in SIM PL-related activities) throughout the course duration.

For more information on medical insurance, visit: www.simge.edu.sg/ge/medicalinsurance.

#### Refund and Transfer/Withdrawal

For refund and transfer/withdrawal policies, please refer to www.simge.edu.sg/ge/refund.

#### Confidentiality

SIM PL is committed to maintaining the confidentiality of the student's personal information and undertakes not to divulge any of the student's personal information to any third party without the prior written consent of the student SUBJECT TO the obligation of SIM PL to disclose to any Singapore government authority any information relating to the student in compliance with the law and/or to the organisation conferring/awarding the qualification.

#### www.simge.edu.sg

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**Members of The SIM Group** 







