Awarding Body

UNIVERSITY OF LONDON

Academic Direction

Goldsmiths
UNIVERSITY OF LONDON

SIM GLOBAL EDUCATION

A Member of the SIM Group

BACHELOR OF SCIENCE (HONOURS)

- Computer Science
- Computer Science (Machine Learning and Artificial Intelligence)
- Computer Science (Web and Mobile Development)

UNIVERSITY OF
LONDON

The programmes are awarded by University of London, UK and developed by the member institution, Goldsmiths, UK.

Contents

Welcome Messages

Professor Wei Kwok Kee
Provost
Singapore Institute of Management

"SIM Global Education is committed to deliver an education that **empowers** you to achieve your highest aspirations. Join us in our **multicultural** learning environment and experience a **quality** education that will equip you with knowledge and skills for the future of work."

"We've transformed the higher education landscape over the last 35 years, with more than **41,000** graduates.

Equipped with a UOL qualification and valuable career guidance from SIM GE, our graduates are highly sought after both **locally and globally**."

Professor Wendy Thomson CBE
Vice-Chancellor
University of London

Why Study at SIM GE?

SIM GE
is the global education arm of the Singapore Institute of Management (SIM Group) founded in 1964.

Our approach towards lifelong learning is to equip you to be future-ready and to empower you to fulfil your highest aspirations.

Annual enrolment of about **16,000** students

40 countries

Over **172,000** graduates

Through-Train Pathway
Over 80 full-time and part-time academic programmes through over 10 university partners.

Bond-Free Scholarship & Bursary
Scholarships are available to students who excel in academics, sports or arts.

Globally-recognised
Degrees offered at SIM have the same curricula & academic standards as those awarded onshore.

Boost Employability
Overall Employment Rate (SIM)
82.4%*

Global Perspectives & Insights
Exposure to diverse cultures and a global network.

* Based on the SIM Graduate Employment Survey 2019/20 conducted by Media Research Consultants on the 2019 cohort of graduates from the full-time Bachelor degree programmes, approximately 6 months after completing their studies. The overall employment rate includes graduates in full time, part time and freelance employment.

Student Life

Seize the now

Make the most of your time in SIM GE

A CAREER HEAD START

Raise your employability through career-readiness initiatives like the Talent Development Programme, Career Chapters and Mentorship Programme.

STUDENT CLUBS & COMMUNITIES

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

OVERSEAS EXPERIENCE

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

STUDENT CARE

Boost your overall well-being through healthy living and wellness programmes or seek the guidance you need from our SIM peer mentors.

Student Learning Centre

A one-stop centre for student academic support

PEER-ASSISTED LEARNING (PAL)

Benefit from a student-to-student support network providing 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.

University of London

17 prestigious member institutions, including the London School of Economics and Political Science, UCL and Goldsmiths

Alumni includes **six Nobel Prize winners, leaders of Commonwealth countries, business leaders, etc.**

Accessible to students from all over the world since **1858**

The University of London is one of the **world's leading universities**, respected by employers and internationally recognised for its high academic standards.

Over **48,000** students in more than **190** countries

Goldsmiths, University of London

Founded in 1891, Goldsmiths is **internationally renowned** for teaching and research in creative, cultural and computational disciplines.

Five Stars institution

with a **Five Star** rating for areas including **teaching**, **employability**, and **internationalisation**, according to the QS Stars/QS Intelligence Unit 2020

Top 50

in the UK for Computer Science and Information Systems, according to the QS World University Rankings by Subject 2019

SIM and University of London

1986 — **First intake of 40 students** for the BSc (Economics) in Management Studies degree.

1988 — 31 students graduate, becoming the **first batch of graduates**.

1990 — SIM sees its **first graduate** with First Class Honours who went on to obtain a **Master's from Imperial College**, London.

1992 — **First intake of the BSc Computing & Information Systems degree** awarded by UOL, examined by Goldsmiths.

1994 — **The only two First Class Honours winners** worldwide were both SIM graduates.

2004 — Diploma for Graduates programme and Graduate Entry Route by LSE made available for those who have a degree and wish to pursue a University of London qualification.

2009 — SIM awarded **Affiliate Centre status** by UOL.

2011 — For the first time, **First Class degree graduates exceeded 100** when 117 were awarded.

2016 — Launch of the MSc in Professional Accountancy, awarded by UOL and led by UCL.

2017 — **Two alumni** pursued Master's at **Cambridge and at Oxford**.

2018 — Opening of the **University of London - SIM Global Education Regional Centre** at SIM Headquarters.

2020 — New record of **304 graduates** with **First Class Honours.**

Launch of the suite of BSc Computer Science programmes, awarded by UOL and led by Goldsmiths.

2021 — SIM celebrates the **35th anniversary** of the collaboration with the University of London.

BSc = Bachelor of Science
MSc = Master of Science

Why choose SIM-UOL?

Qualifications that Employers Value

93.6%* Overall Employment Rate for SIM-UOL Goldsmiths-led Bachelor's Degree Programmes.

Rigorous Curriculum with Through-train Pathway

High standards with academic direction set by well-known Colleges – LSE, UCL and Goldsmiths. Through-train pathways are also available from Foundation to Bachelor's and postgraduate programmes.

Academic Awards and Prizes

Annual ceremony held to recognise students for the Academic Achievements awarded by UOL.

Study at Goldsmiths

Transfer to Goldsmiths' campus in the UK for the remainder of your undergraduate degree.

UOL Master's Scholarship

Under the auspices of the University of London - SIM Global Education Regional Centre, a master's scholarship is awarded annually for a one-year full-time master's at any of the 17 UOL member institutions.

Proven Track Record

Over the last ten years, 160 SIM-UOL alumni have progressed to postgraduate studies in the UK. There are over 2,300 SIM-UOL First Class Honours graduates to-date, with many alumni holding senior positions.

*Based on the SIM Graduate Employment Survey 2019/20 conducted by Media Research Consultants on the 2019 cohort of graduates from the full-time Goldsmiths-led University of London's Bachelor's degree programmes, approximately 6 months after completing their studies. The overall employment rate includes graduates in full time, part time and freelance employment.

BACHELOR OF SCIENCE (HONOURS) IN Computer Science

Objectives

The BSc (Honours) in Computer Science will allow you to develop wide and practical skillsets in computing with strong programming and mathematics skills, as well as softer skills in project management, presentation and teamwork. This programme equips you with an in-depth understanding of the key conceptual and technological issues involved in building software systems.

Career Prospects

Graduates will be qualified for a range of computer science jobs in the creative industries, business, finance, education, health, science, government, and public sectors.

Typical job titles include **data analysts and scientists, machine learning specialists, application programmers, web and mobile developers, video game developers, and systems analysts**.

Modules

STAGE 1	CM1005	Introduction to programming I
	CM1010	Introduction to programming II
	CM1015	Computational mathematics
	CM1020	Discrete mathematics
	CM1025	Fundamentals of computer science
	CM1030	How computers work
	CM1035	Algorithms and data structures I
	CM1040	Web development
STAGE 2	CM2005	Object oriented programming
	CM2010	Software design and development
	CM2015	Programming with data
	CM2020	Agile software projects
	CM2025	Computer security
	CM2030	Graphics programming
	CM2035	Algorithms and data structures II
	CM2040	Databases, networks and the web
STAGE 3*	**Choose six modules from the following:**	
	CM3005	Data science
	CM3010	Databases and advanced data techniques
	CM3015	Machine learning and neural networks
	CM3020	Artificial intelligence
	CM3025	Virtual reality
	CM3030	Games development
	CM3035	Advanced web development
	CM3040	Physical computing and internet of things
	CM3045	3D graphics and animation
	CM3050	Mobile development
	CM3055	Interaction design
	CM3060	Natural language processing
	CM3065	Intelligent signal processing
	PLUS a compulsory project:	
	CM3070	Final project

* SIM reserves the right to change the units offered based on relevance, practicality and demand, in consultation with Goldsmiths, University of London.
The subjects for Stages 1 and 2 are the same for the BSc Computer Science programmes (with or without specialisation). Students take specialised modules only at Stage 3.

> This degree teaches you how to make your own tools for working with media. You gain a much deeper, applied technical understanding of digital media as well as having opportunities to work creatively with media.

Dr Matthew Yee-King
Programme Director,
Goldsmiths,
University of London

BACHELOR OF SCIENCE (HONOURS) IN Computer Science (Machine Learning and Artificial Intelligence)

Objectives

The BSc (Honours) in Computer Science (Machine Learning and Artificial Intelligence) is designed to equip you with the mathematical and engineering knowledge to construct both machine learning and AI systems and learn how machines make sense through intelligence signal processing. These techniques are widely used in the technology industry for a variety of applications. For example, recommending music and products to people, identifying faces in photos and predicting trends in financial markets.

Career Prospects

Graduates will be able to apply for a range of technical, problem-solving jobs in a rapidly growing area. Companies and institutions are applying machine learning and AI to a wide range of problems in **business, finance, education, health, science, government, and public sectors** as well as new application areas such as **music and other creative work**.

Modules

STAGE 1	CM1005	Introduction to programming I
	CM1010	Introduction to programming II
	CM1015	Computational mathematics
	CM1020	Discrete mathematics
	CM1025	Fundamentals of computer science
	CM1030	How computers work
	CM1035	Algorithms and data structures I
	CM1040	Web development
STAGE 2	CM2005	Object oriented programming
	CM2010	Software design and development
	CM2015	Programming with data
	CM2020	Agile software projects
	CM2025	Computer security
	CM2030	Graphics programming
	CM2035	Algorithms and data structures II
	CM2040	Databases, networks and the web
STAGE 3*	**Five compulsory modules:**	
	CM3010	Databases and advanced data techniques
	CM3015	Machine learning and neural networks
	CM3020	Artificial intelligence
	CM3060	Natural language processing
	CM3065	Intelligent signal processing
	Choose one module from the following:	
	CM3005	Data science
	CM3025	Virtual reality
	CM3030	Games development
	CM3035	Advanced web development
	CM3040	Physical computing and internet of things
	CM3045	3D graphics and animation
	CM3050	Mobile development
	CM3055	Interaction design
	PLUS a compulsory project:	
	CM3070	Final project

* SIM reserves the right to change the units offered based on relevance, practicality and demand, in consultation with Goldsmiths, University of London.
The subjects for Stages 1 and 2 are the same for the BSc Computer Science programmes (with or without specialisation). Students take specialised modules only at Stage 3.

BACHELOR OF SCIENCE (HONOURS) IN Computer Science (Web and Mobile Development)

Objectives

Web and mobile development are critical application areas for computer science. Many of the largest technology companies maintain large scale web and mobile applications, providing services such as social media, search, advertising and video and audio streaming. The BSc (Honours) in Computer Science (Web and Mobile Development) aims to set you up with the skills you need to develop applications for web and mobile devices. You will also learn about mobile development, web development and databases.

Career Prospects

Graduates will be qualified for jobs involving the development of web and mobile technology such as websites and applications for smartphones and tablets.

Typical job titles include **mobile application developer, mobile software engineer, front-end engineer, full stack developer and back-end developer**.

Modules

STAGE 1	CM1005	Introduction to programming I
	CM1010	Introduction to programming II
	CM1015	Computational mathematics
	CM1020	Discrete mathematics
	CM1025	Fundamentals of computer science
	CM1030	How computers work
	CM1035	Algorithms and data structures I
	CM1040	Web development
STAGE 2	CM2005	Object oriented programming
	CM2010	Software design and development
	CM2015	Programming with data
	CM2020	Agile software projects
	CM2025	Computer security
	CM2030	Graphics programming
	CM2035	Algorithms and data structures II
	CM2040	Databases, networks and the web
STAGE 3*	**Five compulsory modules:**	
	CM3010	Databases and advanced data techniques
	CM3035	Advanced web development
	CM3045	3D graphics and animation
	CM3050	Mobile development
	CM3055	Interaction design
	Choose one module from the following:	
	CM3005	Data science
	CM3015	Machine learning and neural networks
	CM3020	Artificial intelligence
	CM3025	Virtual reality
	CM3030	Games development
	CM3040	Physical computing and internet of things
	CM3060	Natural language processing
	CM3065	Intelligent signal processing
	PLUS a compulsory project:	
	CM3070	Final project

* SIM reserves the right to change the units offered based on relevance, practicality and demand, in consultation with Goldsmiths, University of London.
The subjects for Stages 1 and 2 are the same for the BSc Computer Science programmes (with or without specialisation). Students take specialised modules only at Stage 3.

COMPUTER SCIENCE Programme Information

The suite of Computer Science undergraduate programmes use creative interactive approaches delivered through Coursera, the world's largest online learning platform. This therefore provides students with immersive learning experiences. Students are expected to attend classes at SIM having reviewed the online resources.

Duration and Intakes

Programme	Duration	Intakes
BSc (Honours) in · Computer Science · Computer Science (Machine Learning and Artificial Intelligence) · Computer Science (Web and Mobile Development)	3 Years Full-time	April & October

Admission Criteria

For General Entrance Requirements, an applicant must normally have the following qualifications:

- Be 17 years old by 30 November 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
- Have at least equivalent to B4 grade at GCE 'O' Level Mathematics (Computing and Statistics do not count as Mathematical subjects) or pass either Discrete Maths or Numerical Maths in the SIM bridging course
- 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 Information Technology (allows for exemption from Year 1 with bridging)
- SIM diplomas in business-related disciplines
- Polytechnic or IB diploma
- University of London International Foundation Programme (IFP)
- Teaching certificate from NIE/NTU
- NUS High School Diploma

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.london.ac.uk/applications/how-apply/am-i-qualified

Mode of Delivery

- Computer simulation
- Consultations
- Lab work
- Lectures
- Online learning through Coursera

Learning through Coursera

The suite of computer science programmes are fully developed and taught by the same faculty that teaches on-campus at University of London. The University of London leverages Coursera's online education platform to deliver the programme curriculum, allowing BSc CS students to benefit from Coursera features such as interactive video transcription, in-course note taking, and seamless learning across multiple devices.

At SIM, lecturers guide students to leverage the resources available on Coursera and facilitate the learning that takes place. The supplementary readings, video lectures, assignments, and discussion forums are extensively discussed in class. Students also collaborate on group projects using Zoom and Slack.

Students may access all course materials anywhere with the mobile app on Coursera, available on iOS and Android. Using the mobile app, learners can:

- Save a week's worth of content for offline access with one click
- Save and submit quizzes offline
- View text transcripts of lecture videos
- Take notes directly in the app
- Set reminder alerts to help you make progress

Assessment

- Coursework / Projects
- Written Exams

Programme Fees

	Local Students	International Students
Programme Fees	S$20,030.40	S$21,442.80
UOL Application Fees (one-time payment)	£107	
UOL Fees	£9,360	
UOL Examination Fees	S$1,870	
Estimated Overall Fees	S$40,900	S$42,100

Fees in S$ are inclusive of prevailing GST. Fees do not include textbooks.
These estimated fees are based on the following components:

- SIM Programme Fees - Payable at the start of each semester and is calculated on a per module basis
- UOL Fees - Payable in £ per semester and is calculated on a per module basis; and subject to taxation and yearly increase.
- UOL Examination Fees – Payable in S$ per semester to the RELC Examinations Bureau and is calculated on a per module basis, for the courses which have exams. For physical examinations, the RELC will also collect an admin fee (per paper). This admin fee is waived in the event the exams are held online.

Please refer to SIM GE website for the latest fees. For updates from RELC, refer to https://www.relc.org.sg/universityexams/uol

Other Fees

Student Development Fee	S$251.45

A one-time payment applicable to students embarking on a full-time Diploma or Undergraduate programme at SIM. This fee goes towards activities that will help in students' personal growth and equip them with functional skills to enhance their employability.

International Student Induction Fee	S$428.00

A one-time fee payable by new international students. This fee covers pre-arrival and arrival support, including activities to enhance the international student learning experience.

All fees are inclusive of the prevailing GST and are applicable for intakes commencing from Jan 2022.

Please visit SIM GE website for more information.

Recognition of Prior Learning (RPL)

RPL may be awarded for up to 8 units (two semesters or 12 months).

In order for RPL 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 RPL and have already received the final award for that qualification within the last five years. An application from a student who has not yet received his or her award will be considered under the rules governing RPL at the time that the award is finally made and not at the time that the application for RPL was submitted.

You cannot be considered for RPL from a particular unit if you have already entered the examination for that unit.

The granting of RPL is at the discretion of the University. The University reserves the right to review its RPL policy each year.

Discretionary Recognition of Prior Learning (RPL)

A fee is charged by the University of London for processing discretionary RPL. (Fees are subject to annual increase).

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

Automatic Recognition of Prior Learning (RPL)

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

Bridging Course for Economics, Mathematics and Accounting (EMA)

The Bridging Course for Economics, Mathematics and Accounting (EMA), is developed and awarded by Singapore Institute of Management, Singapore. The mathematics modules relevant for the Goldsmiths computer science programme is organised twice a year in January and July. The objective is to help applicants attain RPL and/or meet the mathematics requirement for admission.

Upon passing the required bridging modules, students will receive a Certificate of Completion from SIM.

Applicants are required to complete the bridging course section when making an application to SIM.

Modules

- Discrete Mathematics
- Numerical Mathematics

Depending on the applicant's prior academic background and the UOL RPL which may be awarded, the candidate is allowed to sign up for up to two modules.

Note: Economics and Accounting modules are not applicable to applicants applying for the BSc Computer Science programmes.

Assessment

- 100% exam-based

Progression

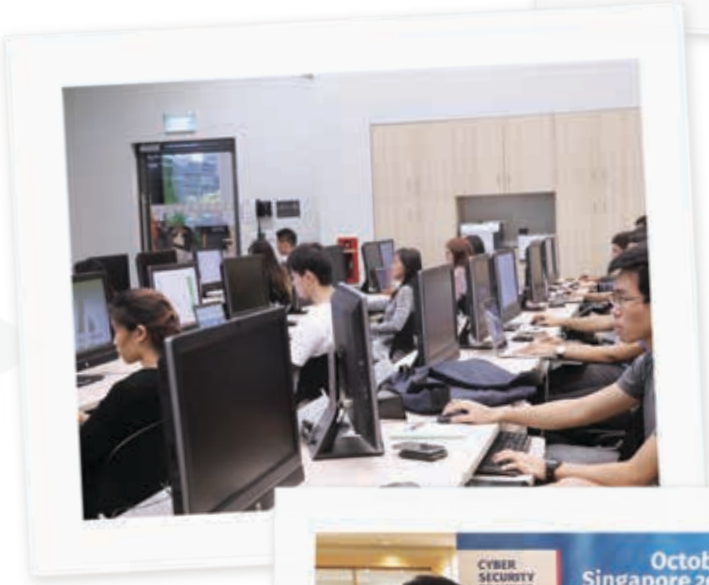
Min. score of 40% (Pass) for each module to qualify for RPL / meet the maths requirement.

Intakes	January or July (Full-time, Course duration is two months for each of the intake.)
Fees (per module)	S$695.50

Fees are inclusive of prevailing GST. Fees do not include textbooks and application charges. Please refer to SIM GE website for the latest fees.

The SIM-University of London Experience

Inter-Collegiate Sports
The annual event organised by the SIM-University of London Student Council provides students a friendly platform to battle it out through eSports, Dodgeball, Captain's Ball and many more.



SIM IT Club
The club aims to equip students with new tech skills through industry-relevant talks and workshops. Tok Yee Ching, graduate of the SIM-UOL BSc (Hons) in Computing and Information Systems* and former IT Security Director of the SIM IT Club shared with us in 2019 that he benefitted greatly from the club having gained invaluable knowledge and soft skills to venture out as a global citizen.

Yee Ching is currently pursuing his doctorate at the Singapore University of Technology and Design and under an IMDA scholarship. He was also among the 12 recipients who were recognised for their contributions in raising Singapore's standing in cybersecurity at the 2019 'The Cybersecurity Awards'.

*This specific programme is no longer offered.

Application & Admission

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 Fees	Local applicants	International applicants
	S$96.30	S$481.50*

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

PRIVATE EDUCATION ACT

The Private Education Act was legislated in December 2009 to regulate the private education institutions (PEIs) in Singapore. The regulatory regime, as set-out under the Private Education Act and its subsidiary legislation, comprises the Enhanced Registration Framework and the EduTrust Certification Scheme, both administered by the Committee for Private Education (CPE), a part of SkillsFuture Singapore (SSG).

Singapore Institute of Management Pte Ltd (SIM PL), in meeting the regulatory requirements under the Private Education Act, has put in place the following:

- Adoption of the Standard PEI-Student Contract template from CPE
- Allowing students a cooling-off period of 7 working days after signing the PEI-Student Contract
- Protection of students' fees under the Fee Protection Scheme
- Transparent refund, course transfer, leave of absence and withdrawal policies
- Commitment in maintaining the confidentiality of students' data

For more information on the above mentioned, visit **www.simge.edu.sg/application-and-admission/edutrust/** and **www.simge.edu.sg/application-and-admission/general-admin-matters/.**

Join the SIM Community!

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Singapore Institute of Management Pte Ltd
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Period of Registration: 20 May 2022 – 19 May 2026

Cert No.: EDU-2-2004
Validity: 20/05/2018 – 19/08/2022

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