CREATE AND INNOVATE FOR THE FUTURE OF BUSINESS AND SOCIETY



SCHOOL OF INFORMATION SYSTEMS

DEAN'S ADDRESS

As the IT school of Singapore Management University (SMU), the School of Information Systems (SIS) seeks to create computing knowledge for the digital transformation of business and society. We aim for excellence in fundamental contribution to academic knowledge, as well as in creating technology with practical impact. SIS faculty includes several world-class scholars and rising stars in their respective disciplines. Our research portfolio is well aligned with Singapore's national initiatives like Smart Nation, Cybersecurity and Urban Management, and includes a number of well-funded projects in our focus areas.

We also seek to apply our knowledge in training IT professionals to innovate solutions that create value to business and society. SIS offers a suite of exciting education programmes. In particular, the Information Systems major in our Bachelor of Science in Information Systems produces job-ready professionals who are versatile in applying emerging technologies to develop end-to-end solutions. Our Smart-City Management & Technology major is a unique interdisciplinary programme that trains professionals in harmonising social, economic, business, environmental, and technology concerns to develop smart city solutions. I am confident that you will find the programme exciting, as students and employers do.

Prof. Pang Hwee Hwa Dean, School of Information Systems

Future -ready Career Skills

Our graduates are highly sought after as they have strong technology, business and people skills.

World-class Faculty, Large-scale Research

Large R&D grants from industry and government provide many opportunities for our students to create and explore the future.

Highly Collaborative Learning Culture

Our nurturing culture of 'learning-to -learn' and peer-to-peer learning has resulted in a strong sense of family and community within SIS.

Smart Nation Immersion



SIS is at the centre of national initiatives like Smart Nation, Analytics for Business, Consumer & Social Insights, Cybersecurity & Data Privacy, Urban Management & Sustainability, Ageing-in-Place and Financial Services Technology (FinTech). As such, our students gain from our close linkages with national agencies and leading industry players. They are afforded opportunities as interns, researchers and employees.

Fast-track Programmes

Fast-track programmes allow undergraduates to pursue an SIS Bachelor's and an integrated Master's degree within a shorter period of time.

OUR STUDENTS ARE INDUSTRY-READY



* SIS recorded the highest increase in mean monthly salaries for 2017. Source: Graduate Employment Survey 2017.

Alumni Testimonial

"I was privileged to have an SMU SIS education, which gave me many opportunities to grow, especially as an entrepreneur. SIS has a pedagogy centred around exploration, and from that I learnt how to learn. Together with this, SIS also imparted a solid grounding in technology skills that put me in good stead to run and scale up my technology-driven business.

In addition, the project-based learning provided the foundations upon which I further developed my critical thinking skills, and the communication and leadership skills that were necessary to run a company. With these opportunities that the school provided, I found the tenacity and the confidence that was necessary to grow from a start-up to the market-leading cloud hosting provider that we are today."



Alvin Poh CEO, Vodien Internet Solutions Pte Ltd Class of 2010

"The SIS journey is challenging but you will realise that the interdisciplinary curriculum coupled with rigourous coursework would put you in good stead to excel in your career in the years to come. You will learn to forge ahead with courage and with zeal, to break what seem to be big problems into bite-sized challenges to work on, just as you would in programming.

The close-knit community in which we call the SIS family will mould you into a valuable team player as well as a competent leader where you will thrive in your endeavours in spite of insurmountable odds. Your tenacity to overcome obstacles will instil in you the never-say-die attitude - to learn from adversity, to inspire others to exceed expectations, and to champion those who are committed to excellence."



Ngoh Jun Dat, Executive, Operations Innovation & Development, YCH Group Class of 2016

Employer Testimonial

"SMU SIS students possess the 3Cs - Confidence, Curiosity and Creativity. They display the ability to analyse a problem and develop workable solutions. SIS students also have a good balance of technical and business skills and the ability to apply their knowledge in a new environment."



Michelle Chan Director, Human Resources DFS Group Limited

NURTURING PROFESSIONALS FOR THE DIGITAL AGE

BSc (Information Systems): Information Systems

The emergence of new and disruptive computing and information technologies, in tandem with the massive amounts of data spawned as a result of technological systems and applications, have raised the demand for a workforce skilled in Information Systems. Future graduates have to be equipped with new capabilities in order to harness this evolution, thereby developing innovative and value-adding solutions for businesses and society.

The core curriculum for our IS Major focuses on the following:

Value Creation

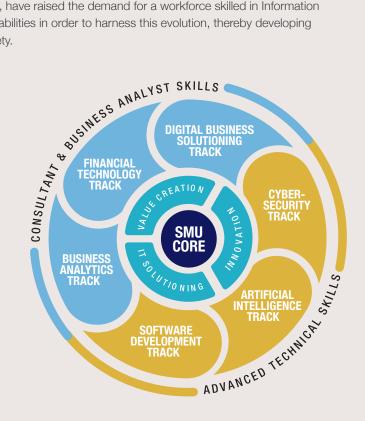
Identifying opportunities to create value for businesses and society.

Innovation

Innovating by exploiting possibilities offered by emerging technologies and market trends, while synthesising knowledge across domains.

IT Solutioning

Building applications through harnessing computing and information technologies.



Tracks Focusing On Deepening Consultant & Business Analyst Skills

Business Analytics

This track teaches students the concepts, methods and best practices of data analytics, and enables them to apply that knowledge to develop business strategies and solve real-world issues.

Financial Technology

Covering the foundations of enterprise architecture in banking, as well as functional domain areas, such as retail and corporate banking, digital payments and innovations, and financial markets.

Digital Business Solutioning



This track enables students to ideate, design and develop IT solutions that leverage on digital technology to solve business problems and enhance operational productivity.

Tracks Focusing On Deepening Advanced Technical Skills

Cybersecurity

Software Development

technology effectively.

Building on basic computational literacy, students will be equipped with the technical skills to develop applications, from web to mobile that fully leverage and enhance



Delivering both a solid theory and practical foundation, the courses in this track provide a full-spectrum coverage of various aspects of security fundamentals, including (but not limited to) network security, data security and software security.

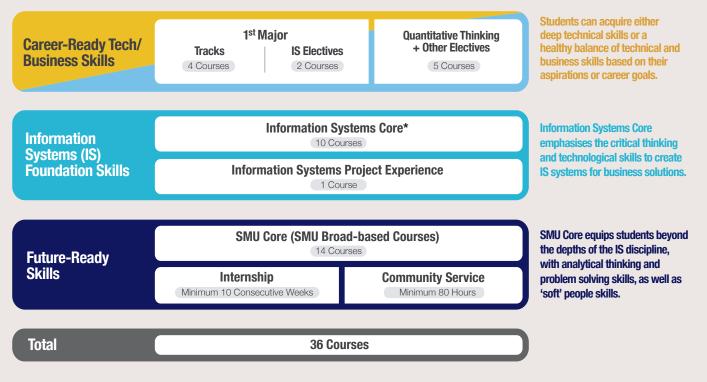




The Artificial Intelligence (AI) track covers an area that aims to augment or substitute human intelligence in solving complex real world decision making problems. The courses in this track will equip students with core concepts and practical know-how to build innovative AI applications that impact business and society.

Curriculum For Academic Year 2018-19 - Information Systems Major

The Information Systems (IS) Major prepares our graduates with capabilities to create value for business and society by developing innovative IT solutions. The programme provides the flexibility for the students to acquire either deep technical skills or a healthy balance of technical and business skills.



*Information Systems Core Courses

Information Systems & Innovation	Data
Introduction to Programming	Busir & Sol
Computational Thinking	Intera
Web Application Development	Softw

Business Process Ar & Solutioning	alveie
Interaction Design &	Prototyping

Software Project Management

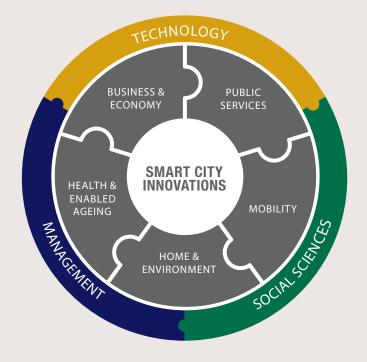
Enterprise Solution Development	
Enterprise Solution Management	
Information Systems Project Experience	

NURTURING PROFESSIONALS FOR URBAN LIVING IN THE DIGITAL AGE

BSc (Information Systems): Smart-City Management & Technology

Smart cities are emerging across the world, requiring not just technology, but the ability to synthesise solutions considering multiple dimensions across social, economic, business and environment. A smart city, empowered by technology, connects people, businesses and government to make itself more liveable and sustainable. In order to succeed, it is essential for the next generation of professionals to be equipped with multidisciplinary skills.

The Smart-City Management & Technology (SMT) Major is a unique interdisciplinary programme aimed at developing skills in integrating technology, social science and management to address challenges and reap opportunities arising from the transformation of global and national trends towards smart cities. The curriculum equips students with data analytics and technological skills, as well as the ability to provide evidence-based reasoning to policy, economic and social implications of IT innovations.



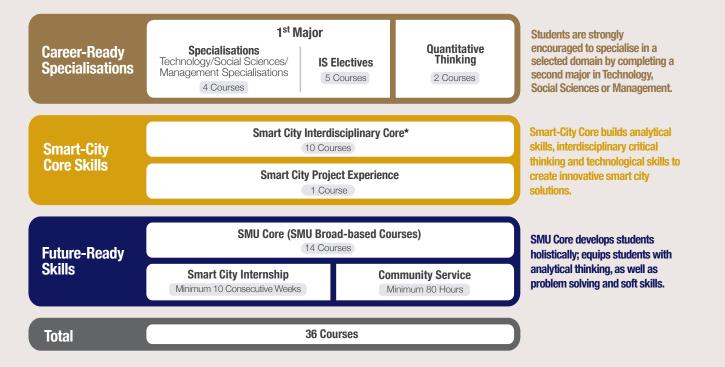
Students will also gain knowledge depth through career-ready specialisations in 5 key smart city applications domains:

Business &	Health &	Home &	Mobility	Public
Economy	Enabled Ageing	Environment		Services
Financial Technology	Ageing-in- Place With Technology	Data Driven Urban Planning	Dynamic Crowd Management	Public Safety
Sharing Economy	Collaborative Care System	Intelligent Sustainable Solutions	Urban & Transportation Solutions	Urban Community & Liveability
Smart	Preventive	Smart	Sustainable	Social
Retail	Healthcare	Building	Logistics	Sensing

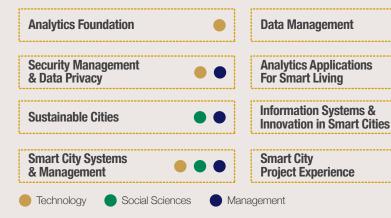


Curriculum For Academic Year 2018-19 - Smart-City Management & Technology Major

The Bachelor of Science (Information Systems): Smart-City Management & Technology curriculum is as follows:



*Smart-City Interdisciplinary Core Courses

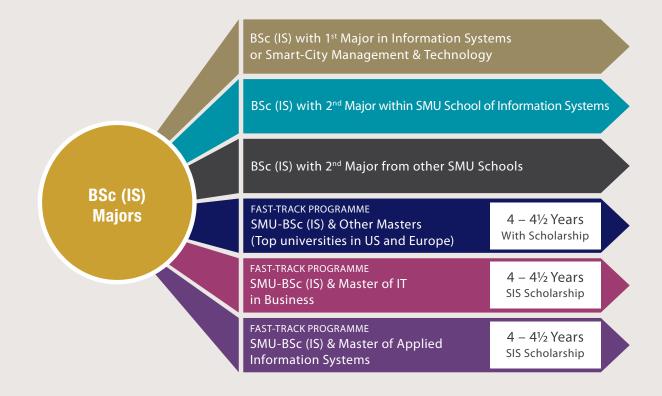


Programming For Smart City Solutions	•
Introduction to Public Policy	•
Geospatial Analytics for City Planning	•

VERSATILE PATHWAYS

A Stepping Stone To Postgraduate Programmes

The cross disciplinary nature of the BSc (IS) programme provides our graduates with a competitive edge in gaining admission into a wide range of top postgraduate programmes.



Being Engaged in Learning

The vibrant student life at SMU offers a myraid of opportunities for students to develop both leadership and team player qualities. Students can accumulate real-world experiences from being actively involved in student activities, entrepreneurial pursuits, taking on prestigious competitons, and more.

SMU-X Stay ahead of innovative pedagogy by pushing the boundaries and venturing into new ways of bridging theory and practice.	Overseas Study Mission Visit top companies around the world and network with industry leaders for future career opportunities.
Local & Overseas Internships Broaden your perspectives and apply your skills and knowledge to real-world business operations.	Project & Research Experience Engage with industry leaders and gain valuable hands-on experiences to tackle real-world challenges.
Community Service Gain exposure to diverse social, political and economic environments as you do your part to advance a humanitarian cause.	

SCHOLARSHIPS



SMU offers an innovative package of scholarships, study awards, bursaries and generous loan schemes that will provide all candidates the road to financial freedom.

Please note that the list is not exhaustive. For more details, scan the QR code or visit: www.smu.edu.sg/about/financial/scholarships

For Prospective Students ASEAN Undergraduate Scholarship Bangkok Bank Scholarship De Suantio Scholarship Gary Kunis Scholarship in Lee Kong Chian Scholars' Programme Li Ka Shing Endowed Scholarship Entrepreneurship and Technopreneurship LKY-STEP Award Lim Siah Mong Scholarship Ng Kai Wa Scholarship Science & Technology SMU Global Impact Scholarship Sing Lun Scholarship Undergraduate Scholarship SMU-School of Information SMU Merit Scholarship Programme SMU Steven Miller Scholarship Systems Scholarship Tahir Scholarship University Study Award Tanoto Scholarship

SIS Aspirations Scholarship

Fast-track Programmes

SIS students can pursue a Bachelor's and Masters' programme concurrently through:

SMU-Carnegie Mellon Masters (Pittsburgh, USA) under the National Infocomm Scholarship offered by IMDA	SMU BSc (IS) & Master of IT in Business (e.g. Analytics Track, Financial Technology & Analytics Track, Artificial intelligence Track)	SMU BSc (IS) & Master of Applied Information Systems
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For Current Students Chan Chong Beng ABS Study Award Decision Science Agency Scholarship Entrepreneurship Scholarship Gary Kunis Scholarship in **DFS** Scholarship Fung Scholarship Entrepreneurship and Technopreneurship Lee Foundation Student Life Goh Foundation Endowed Scholarship KKH Scholarship Scholarship Mochtar Riady Scholarship Ng Kai Wa Scholarship NYC System Engineering Study Award SAS Institute Bachelor of Science SICC International Exchange PayPal FinTech Scholarship Scholarship Scholarship SMU Alumni Scholarship SMU Steven Miller Scholarship Sing Lun Scholarship Temasek Foundation International SMU-School of Information Systems Leadership Enrichment and Regional Wilmar Scholarship Networking Programme @ Singapore Scholarship

Management University

Indicative Grade Profiles

Grade Profiles of the 10th and 90th percentiles of Singapore -Cambridge GCE A-Level Applicants offered places at SMU in 2017 University Admissions Exercise

Indicative Grade Profile 3H2/1H1 content-based subjects

10th Percentile	90th Percentile
BBC/B	AAA/A

Information is correct as of 8 January 2018

Polytechnic GPAs of the 10th and 90th percentiles of Polytechnic Applicants offered places at SMU in 2017 University Admissions Exercise

Indicative Grade Profile GPA	
10th Percentile	90th Percentile
3.57	3.94

LEADING THE WAY Selse Ovitor



Partner with Carnegie Mellon University (CMU) and funded by the National Research Foundation (NRF). To create a personalised participatory Smart Nation where social and urban services are customised to individual needs and where individuals can come together to solve the challenges too.



Prof Lim Ee Peng Professor of Information Systems Director, Living Analytics Research Centre



Partner with TATA Consultancy Services (TCS) and funded by the government and industry To create a citizen-centric community care platform that is inclusive and intelligent via the integration of technologies with social behavioural perspectives.



Assoc Prof Tan Hwee Pink Associate Professor of Information Systems (Practice) Academic Director, SMU-TCS iCity Lab



 Awarded "The Most Outstanding Contribution to Social Behavioural Research to Enable Sustainable Ageing in Place in the World in 2016" by The Globals, a worldwide publisher specialising in aged care provision



Funded by the National Research Foundation (NRIF)

systems via the implementation of a holistic, end-to-end approach mobile computing security.

To create technologies and solutions to secure different layers of mobile computing



Prof Robert Deng Dean, Postgraduate Research Programmes AXA Chair Professor of Cybersecurity Director, Secure Mobile Centre

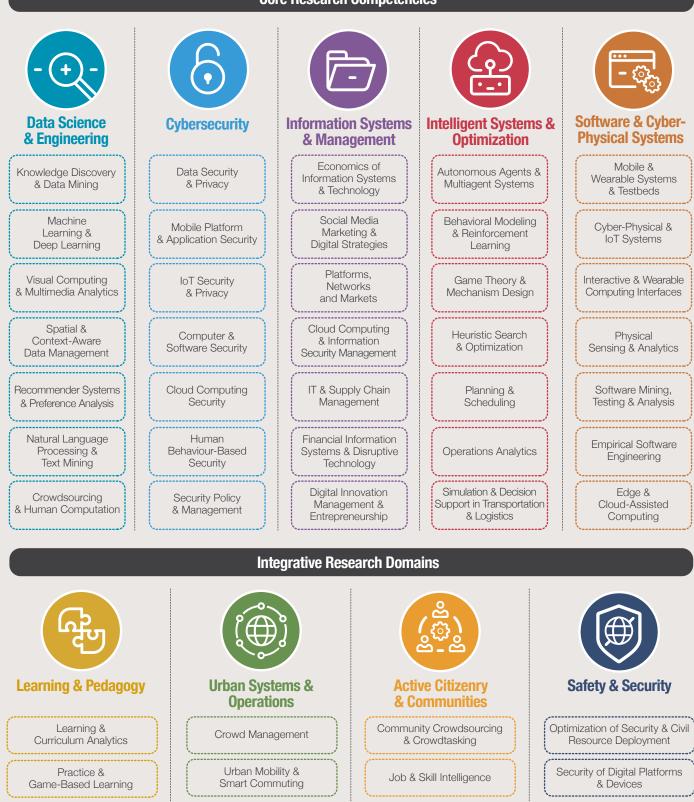


- 1st SMU Faculty to be conferred fellowship by Institute of Electrical and Electronics Engineers (IEEE)
- 1st named AXA Chair Professorship in Cybersecurity and one of only two
 AXA Chairs to be conferred this honour

IN HIGHLY RELEVANT AREAS

We organise our academic research and our applied project work into the five core research competencies and four integrative research domains shown below. Many of our faculty do work that spans several of the sub-areas within each of these main areas.

Core Research Competencies



Blended Learning

Personalized Learning

Sustainability

Maritime Traffic Management

Urban Logistics &

Lifestyle & Wellness

Intelligence

Urban & Social Analytics

Privacy-Preserving

Data Sharing & Analytics

Regulations & Policies



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School of Information Systems Singapore Management University 80 Stamford Road Singapore 178902 Contact: +65 6808 7960 Website: sis.smu.edu.sg Undergraduate Enquiries: sis_ugrad@smu.edu.sg

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