

HEAR FROM INDUSTRY LEADERS



"Many countries including Singapore, China, India and Spain are developing smart cities rapidly. This development offers exciting opportunities for enterprising individuals who are able to harness technology to deliver innovative solutions and services to improve the lives of citizens. The new major in Smart-City Management & Technology is a timely program which incorporates interdisciplinary knowledge and analytical skills that will produce professionals with the requisite knowledge of public policy & management, social models & psychology, in addition to a solid grounding in IT."

ROBERT YAP MIN CHOY

Deputy Chairman & Executive Director
Y3 Technologies



"Singapore's drive to become a Smart Nation takes place against the exciting backdrop of the 4th Industrial Revolution. As Singapore builds the infrastructure for Smart Nation, we are also growing deep capabilities across the public sector in smart city technologies such as sensors & IOT, data analytics and machine learning etc."

It is visionary and timely of SMU's School of Information Systems to introduce this new degree in Smart-City Management and Technology and build tomorrow's talent pipeline.

Be it in the areas of transforming digital government, optimising smart city services or catalysing civic innovation, the digital economy will offer many challenges and opportunities for SMU's undergrads and graduates from this programme to apply their learning and solve real-world problems."

CHAN CHEOW HOE

Government Chief Information Officer &
Deputy Chief Executive
Government Technology Agency

**FAST-TRACK PROGRAMMES & SCHOLARSHIPS****FAST-TRACK PROGRAMMES**

To pursue a Bachelor's and Master's degrees within a shorter period of time.

- SMU-BSc (IS) & Master of IT in Business (Analytics Track)
- SMU-BSc (IS) & Master of Applied Information Systems

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.

FOR FRESHMEN

- Lee Kong Chian Scholars' Programme
- Li Ka Shing Endowed Scholarship
- National Infocomm Scholarship
- SMU-School of Information Systems Scholarship
- SMU Global Impact Scholarship Award
- SMU Merit Scholarship Programme
- SMU Steven Miller Scholarship

FOR SENIORS

- DFS Scholarship
- Fung Scholarship
- Goh Foundation Endowed Scholarship
- KKH Scholarship
- Lee Foundation Student Life Scholarship
- Mochtar Riady Scholarship
- SAS Institute Bachelor of Science Scholarship



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

Bachelor of Science (Information Systems): Smart-City Management and Technology

Nurturing Professionals for Urban Living in the Digital Future

**DEAN'S MESSAGE**

The "smartness" of a city is not an end in itself; rather, it is a means to make the city more liveable and to attain sustainable development. These end-goals entail harmonising a host of concerns, including social, economic, business, environmental, and technology.

Smart-City Management & Technology* is a unique interdisciplinary programme designed to train professionals to manage those multidisciplinary concerns, and to apply the enabling technologies. This timely programme equips students to seize career opportunities arising from the global trend towards smart cities, and Singapore's Smart Nation Initiative in particular. Students will acquire a sound foundation of the interdisciplinary knowledge that is required to address complex real-world problems. They will be able to innovate IT solutions to achieve intended business, social and environmental outcomes. Students will also have opportunities to participate in the development of cutting-edge smart city solutions.

We invite prospective students to find out more about our programme. We are also actively engaging government agencies and industry as partners, to prepare the next generation of professionals who are ready to employ smart solutions in the real-world.

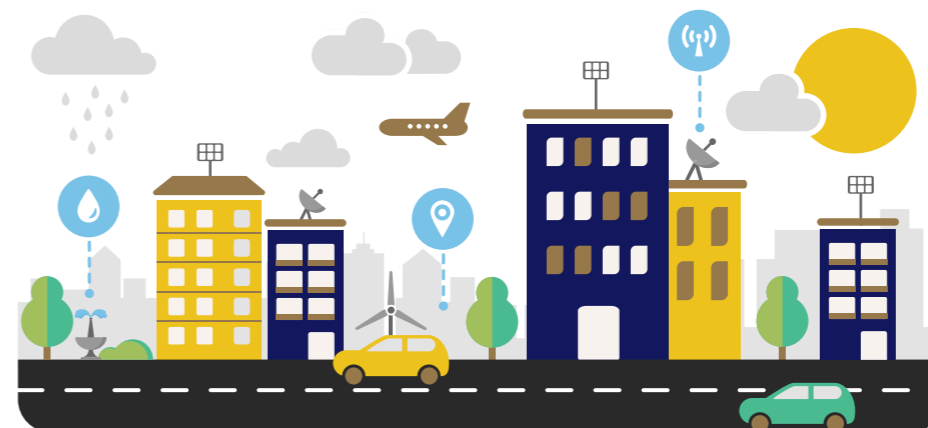


PROF. PANG HWEE HWA
Dean
School of Information Systems

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WHAT IS A SMART CITY?

The future "smartness" no longer involves only technology but the ability to synthesise solutions considering multiple dimensions across social, economic, business and environment. A smart city is rooted in the creation and connection of human capital, social capital and Information and Communications Technology (ICT) infrastructure in order to generate greater and more sustainable economic development and a better quality of life.

**HIGHLY COLLABORATIVE LEARNING CULTURE**

Our nurturing culture of learning-to-learn has resulted in a strong sense of family and community within the School of Information Systems.

**REAL-WORLD EXPERIENTIAL LEARNING**

Large research centres and labs funded by industry and government provide opportunities for our students to create innovative smart city solutions.

**INTERDISCIPLINARY WITH SPECIALISATION OPTIONS FOR DOMAIN KNOWLEDGE**

Be future-ready with interdisciplinary training across technology, management and social science disciplines and specialise in a specific domain.

**FAST-TRACK PROGRAMMES**

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

**SCHOOL OF INFORMATION SYSTEMS**

Singapore Management University
80 Stamford Road Singapore 178902

Undergraduate Enquiries:

- ☎ (65) 6808 7960
- ✉ sis_ugrad@smu.edu.sg
- 🌐 sis.smu.edu.sg/bsc-is

WHY SMART-CITY MANAGEMENT & TECHNOLOGY MAJOR?

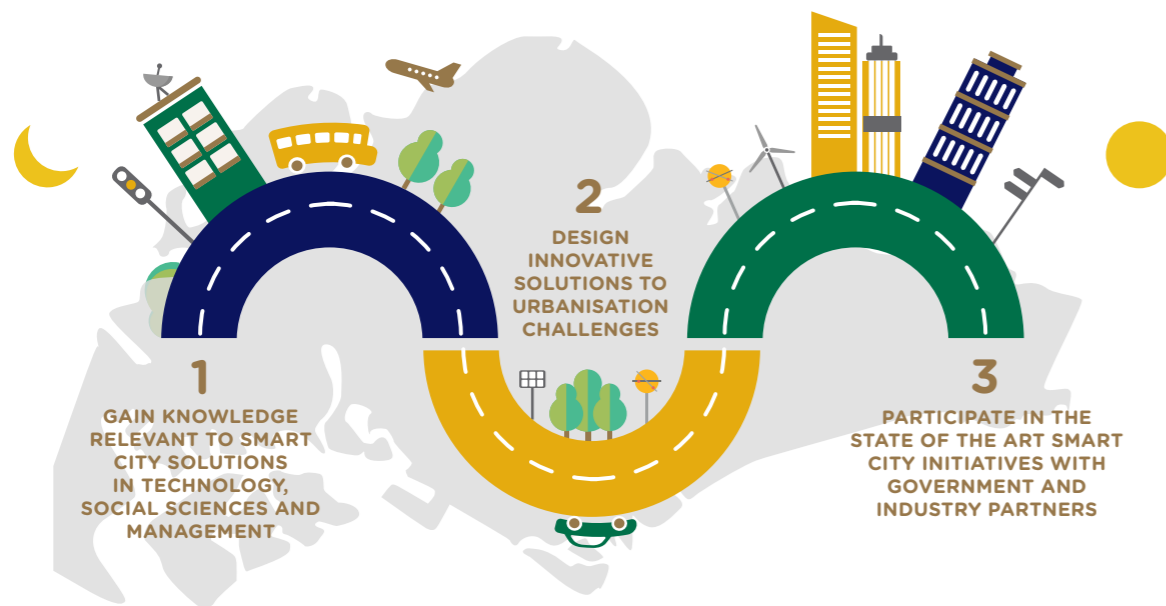
Smart cities are emerging across the world. Singapore's Smart Nation Initiative supports impactful innovative solutions that use technology to address the nation's challenges, with citizens at heart. It is essential for the next generation professionals to be equipped with multidisciplinary skills. This unique interdisciplinary programme aims at developing the skills for the future, aligning with global and nation initiatives towards smart cities.



"Singapore's Smart Nation initiative strives to improve living, create opportunities, and forge stronger communities by harnessing infocomm technology, networks and data. To succeed, we need people with the skills, gumption and perseverance to innovate and develop solutions to solve problems and improve quality of life for Singapore, and the rest of the world."

MR. TAN KOK YAM

Deputy Secretary (Smart Nation and Digital Government) | Deputy Secretary (Strategy Group)
Prime Minister's Office Singapore



Smart-City Management & Technology Major equips students with analytical, interdisciplinary critical thinking and technological skills to seize career opportunities in designing, developing and managing smart city innovative solutions for the urbanisation challenges of today's global economy. To achieve this, students acquire the breadth and application of interdisciplinary knowledge across technology, social sciences and management disciplines.

To ensure that students thrive in this rapidly changing digital age, the students will gain depth in domain knowledge through specialisation and experiential learning in 5 key smart city application domains further illustrated on the right:

- Business & Economy
- Health & Enabled-Ageing
- Home & Environment
- Mobility
- Public Service

TECHNOLOGY DISCIPLINE

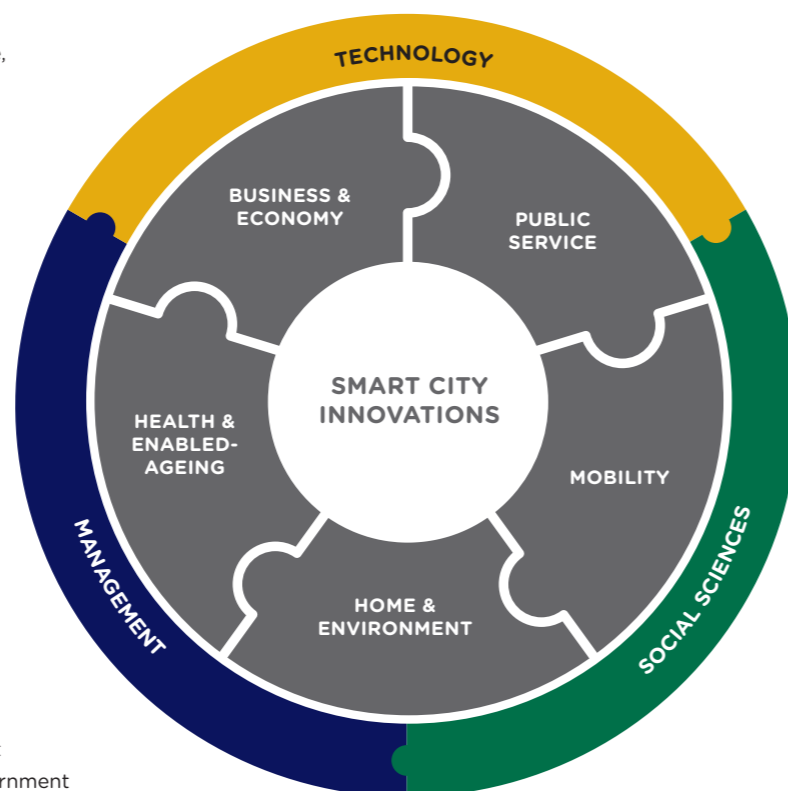
- Analytics
- Mobile
- Internet-of-Things
- Cloud Computing
- Secure Data & Privacy
- Emerging Technologies

SOCIAL SCIENCES DISCIPLINE

- Health & Well-being
- Community
- Equitable Society

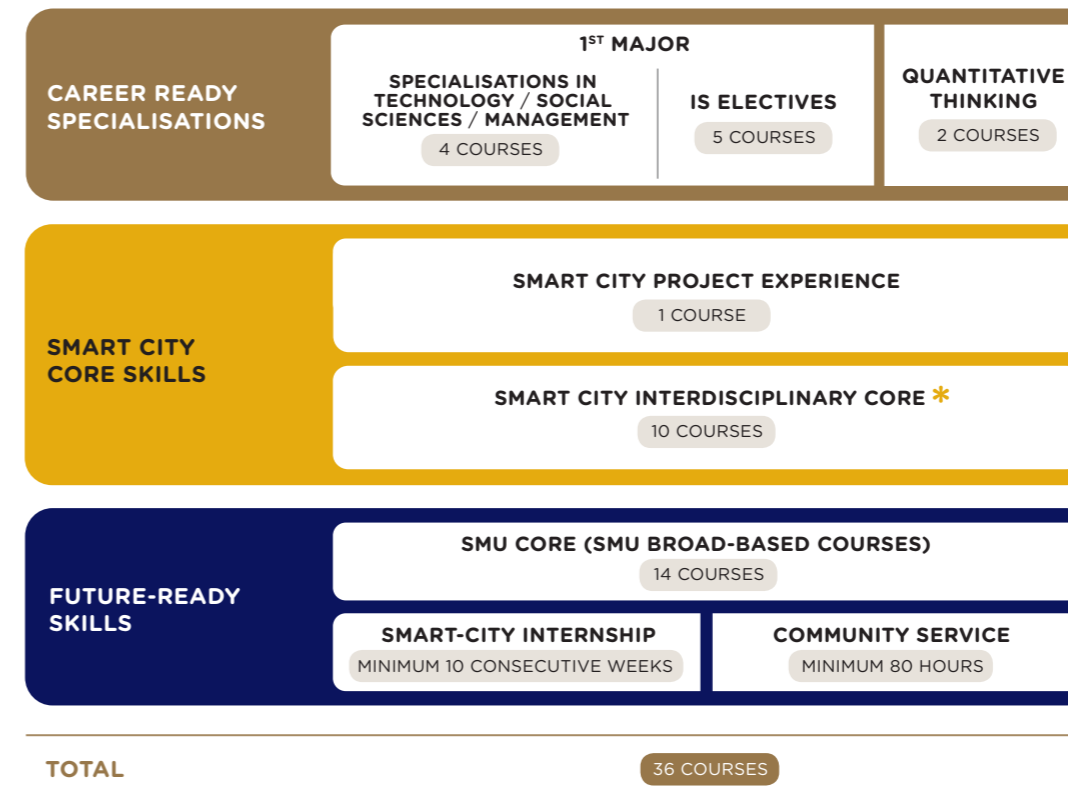
MANAGEMENT DISCIPLINE

- Sustainable Cities
- Policy & Decisions
- Cost-Benefit-Risk Management
- Impact on Civil, Private & Government



CURRICULUM FOR ACADEMIC YEAR 2017-18 - SMART-CITY MANAGEMENT & TECHNOLOGY MAJOR

The Smart-City Management & Technology Major curriculum is as follows:



Students are strongly encouraged to do second major in technology, social sciences, or management specialisations to be equipped with domain skills.

Smart-City core builds analytical skills, interdisciplinary critical thinking and technological skills to create innovative smart city solutions.

SMU Core develops students holistically; equips students with analytical thinking, problem solving skills and 'soft people' skills.

* SMART CITY INTERDISCIPLINARY CORE COURSES

ANALYTICS FOUNDATION	DATA MANAGEMENT	PROGRAMMING FOR SMART CITY SOLUTIONS
ANALYTICS APPLICATIONS FOR SMART LIVING	SUSTAINABLE CITIES	INTRODUCTION TO PUBLIC POLICY
SECURITY MANAGEMENT & DATA PRIVACY	SMART CITY SYSTEMS & MANAGEMENT	INFORMATION SYSTEMS & INNOVATION IN SMART CITIES
GEOSPATIAL ANALYTICS FOR CITY PLANNING	SMART CITY PROJECT EXPERIENCE	

LEGEND

- TECHNOLOGY
- SOCIAL SCIENCES
- MANAGEMENT



LIVING ANALYTICS RESEARCH CENTRE (LARC)

- Urban and Community Liveability
- Job and skills intelligence
- Personalised Urban Mobility
- Smart Consumption and Healthy Lifestyle

LIVELABS URBAN LIFESTYLE INNOVATION PLATFORM

- Mobile Computing
- Location-based Congestion Management
- Business Productivity and Economy

SMU-TCS iCITY LAB WITH TATA CONSULTANCY SERVICES

- Ageing-in-place
- Collaborative Care System

FUJITSU-SMU URBAN COMPUTING AND ENGINEERING CORP (UNICEN)

- Dynamic Mobility - Crowd / Congestion Management and Transportation
- Maritime Port Optimisation and Integrated Urban Logistics

SECURE MOBILE CENTRE

- Analysis of Mobile Malware
- Scalable & Secure Mobile Computing