

		AY2026-27			
Aug ~ Nov 2026		Nov ~ Dec 2026	Jan ~ Apr 2027	Apr ~ Jul 2027	Jul ~ Aug 2027
Aug term (10 weeks)		Nov term (5 weeks)	Jan term (10 weeks)	Apr term (10 weeks)	Jul term (5 weeks)
FTA	ISFS614 Digital Banking & Trends		ISFS614 Digital Banking & Trends	ISFS610 Digital Payments & Innovations	ISFS626 Digitalised Currencies & CBDCs (0.5CU)
	ISFS621 Fintech Innovations & Start-ups		ISFS621 Fintech Innovations & Start-ups	ISFS620 Data Science in Financial Services	ISFS627 Tokenised Assets & NFTs (0.5CU)
	ISFS623 Risktech and Regtech		ISFS623 Risktech and Regtech	ISFS605 Financial Markets Systems & Technology	
			ISFS625 Corporate & Consumer Financial Technology	ISFS622 Quantum Computing in Financial Services	
			ISFS610 Digital Payments & Innovations		
DSA	ISSS603 Applied Data Science for Customer Insights (SMU-X)		ISSS602 Data Analytics Lab	ISSS602 Data Analytics Lab	ISSS623 Applied Data Science in Healthcare (0.5CU)
	ISSS609 Text Analytics & Applications		ISSS621 Data Science for Business	ISSS625 * Query Processing and Optimisation	
	ISSS602 Data Analytics Lab		ISSS625 * Query Processing and Optimisation	ISSS612 Big Data: Tools & Techniques	
	ISSS625 * Query Processing and Optimisation		ISSS615 Data Management	ISSS608 Visual Analytics & Applications	
	ISSS626 Geospatial Analytics & Applications		ISSS608 Visual Analytics & Applications	ISSS604- Applied Data Science in Operations	
	ISSS621 Data Science for Business			ISSS606 Applied Data Science in Social Networks	
				ISSS603 Applied Data Science for Customer Insights (SMU-X)	
AI	CS602 Algorithm Design & Implementation	CS615 Agentic AI for Intelligent Autonomy (0.5CU)	CS602 Algorithm Design & Implementation	CS610 * Applied Machine Learning	CS613 * Prompt Engineering for LLMs (0.5CU)
	CS610 * Applied Machine Learning	CS616 Human-AI Interaction Design (0.5CU)	CS610 * Applied Machine Learning	CS601 Artificial Intelligence and Uncertainty Reasoning	
	CS612 * AI System Evaluation	CS620* AI in Financial Markets Forecastin(new)	CS601 Artificial Intelligence and Uncertainty Reasoning	CS605 Natural Language Processing for Smart Assistants	
	CS609 Introduction to Reinforcement Learning		CS614* Generative AI with Large Language Models	CS611 Machine Learning Engineering	
	CS604 Deep Learning for Visual Recognition		CS604 Deep Learning for Visual Recognition	CS608 Recommender Systems	
	CS611 Machine Learning Engineering		CS621 Agentic AI for Intelligent Autonomy new		
	CS614* Generative AI with Large Language Models		CS609 Introduction to Reinforcement Learning		
	CS621 Agentic AI for Intelligent Autonomy new				
	CS619 Human-AI Interaction Design new				
DT	IS615 Digital Transformation Strategy (SMU-X)	IS626 Digital Technologies & Sustainability (0.5CU)	IS615 Digital Transformation Strategy (SMU-X)	IS623 Digital Governance & Risk Management	
	IS620 Digital Organisation & Change Management	IS636 Sustainable IT Systems and Practices (0.5CU)	IS620 Digital Organisation & Change Management	IS619 * Business Applications of Digital Technology	
	IS624 Experimental Learning & Design Thinking		IS621 * Agile & DevSecOps	IS621 * Agile & DevSecOps	
	IS625 Digital Enterprise Architecture		IS622 (digital) Product Management	IS622 (digital) Product Management	
			IS632 Digitalisation & Process Innovation	IS603* IT Project & Vendor Mgmt	
			IS625 Digital Enterprise Architecture (TBC)		
CYB	IS613 * Cybersecurity Technology & Applications		CS617 AI-Driven Security Analysis (new)	CS618 Cloud Security (new)	
			IS639 Threat Intelligence & Incident Response (new)	IS640 Enterprise Cryptography (new)	
			IS641 Strategic Cybersecurity Management (new)		
TECH	IS602 Spreadsheet Modeling		IS602 Spreadsheet Modeling	IS602 Spreadsheet Modeling	IS638 Global Exposure Project (SMU-XO) (new)
	IS628 Computational Thinking w Python		IS628 Computational Thinking w Python	IS628 Computational Thinking w Python	
	IS630 Statistical Thinking for Data Science		IS630 Statistical Thinking for Data Science	IS630 Statistical Thinking for Data Science	
	IS614 IoT Technology & Applications		IS631 Modern Software Solution Development	IS635 Low Code Application Development (new)	
	IS604* Global Sourcing				
	IS627 Blockchain Technology				
	IS634 Web3 Fundamentals				

* This course is cross-listed in multiple course areas.

COURSE LIST:

To view the course design documents, click on below link:

<https://ccms.smu.edu.sg/>

Note that for new courses, the course design document may only be available nearer to the course start. Course design document in are for reference only. As course plan may change from term to term, the actual course design document for a particular term/class will be shared by the instructor directly with the class (eg: via eLearn).

Course area: FTA (Financial Technology)		
Code	Course Title	Instructor
ISF614	Digital Banking & Trends	PATRICK THNG
ISF621	Fintech Innovations & Start-ups	PATRICK THNG
ISF605	Financial Markets Systems & Technology	NIRAV JANAK PARIKH
ISF610	Digital Payments & Innovations	MAHESH GOEL
ISF620	Data Science in Financial Services	TAN GEOK LENG
ISF622	Quantum Computing in Financial Services	PAUL GRIFFIN
ISF623	Risotech and Regtech	RANDALL DURAN
ISF625	Corporate & Consumer Financial Technology	RANDALL DURAN
ISF626	Digitalised Currencies and CBDs (0.5CU)	COREY MANDERS
ISF627	Tokenised Assets and NFTs (0.5CU)	COREY MANDERS
CS620*	AI in Financial Markets Forecasting new	GARY ANG

Course area: DSA (Data Science & Analytics)		
Code	Course Title	Instructor
ISS5621	Data Science for Business	ZHU FEIDA / FANG YUAN
ISS602	Data Analytics Lab	KAM TIN SEONG
ISS603	Applied Data Science for Customer Insights (SMU-X)	TAN MING HUI
ISS604	Applied Data Science in Operations	MICHELLE CHEONG
ISS5612	Big Data: Tools & Techniques	SWAVEK WLODKOWSKI
ISS608	Visual Analytics & Applications	KAM TIN SEONG
ISS609	Text Analytics & Applications	ONG YONG ZHENG
ISS606	Applied Data Science in Social Networks	FANG YUAN
CS610*	Applied Machine Learning	DAI BING TIAN / ZHAO YILIANG / YANG XIAOYAN / JAMES KOH
ISS615	Data Management	ZHENG BAIHUA / KYRIAKOS MOURATIDIS
ISS623	Applied Data Science in Healthcare (0.5CU)	SEAN LAM SHAO WEI
ISS626	Geospatial Analytics & Applications	KAM TIN SEONG
ISS625*	Query Processing and Optimisation	SWAVEK WLODKOWSKI
CS613*	Prompt Engineering for LLMs (0.5CU)	MAKSIM TKATCHENKO
CS614*	Generative AI with Large Language Models	LAURA WYNTER

Course area: AI (Artificial Intelligence)		
Code	Course Title	Instructor
CS601	Artificial Intelligence and Uncertainty Reasoning	AKSHAT KUMAR / NGO CHONG WAH / CAO ZHIGUANG
CS602	Algorithm Design & Implementation	DAI BING TIAN / LAU HOONG CHUIN
CS604	Deep Learning for Visual Recognition	SUN QIANRU
CS605	Natural Language Processing for Smart Assistants	DENG YANG
CS608	Recommender Systems	HADY W LAUW
CS609	Introduction to Reinforcement Learning	JAMES KOH
CS610*	Applied Machine Learning	DAI BING TIAN / ZHAO YILIANG / YANG XIAOYAN / JAMES KOH
CS611	Machine Learning Engineering	ULYSSES CHONG
CS612*	AI System Evaluation	SUN JUN
ISS625*	Query Processing and Optimisation	SWAVEK WLODKOWSKI
CS613*	Prompt Engineering for LLMs (0.5CU)	MAKSIM TKACHENKO
CS614*	Generative AI with Large Language Models	LAURA WYNTER
CS621	Agentic AI for Intelligent Autonomy new	DAI BING TIAN / JEAN CHEN
CS619	Human-AI Interaction Design new	LI JIANINAN
CS620*	AI in Financial Markets Forecasting (0.5CU) new	GARY ANG

Course area: DT (Digital Transformation)		
Code	Course Title	Instructor
IS615	Digital Transformation Strategy (SMU-X)	KIRUTHIKA RAMANATHAN
IS620	Digital Organisation & Change Management	HOE SIU LOON
IS621*	Agile & DevSecOps	DON TA
IS622	(digital) Product Management	GABRIYEL WONG
IS623	Digital Governance & Risk Management	NICHOLAS TAN / ADRIANA BANOZIC
IS624	Experimental Learning & Design Thinking	HOE SIU LOON
IS625	Digital Enterprise Architecture	NICHOLAS TAN / KOK WOON CHEE
IS619*	Business Applications of Digital Technology	DARREN THAYRE
IS626	Digital Technologies and Sustainability (0.5CU)	ANDREW KOH
IS636	Sustainable IT Systems and Practices (0.5CU)	KENNETH KOH
IS632	Digitalisation and Process Innovation	HOE SIU LOON
IS603*	IT Project & Vendor Management	YAP CHEE YUEN
IS604*	Global Sourcing of Technology & Processes	PATRICK THNG

Course area: CYB (Cybersecurity)		
Code	Course Title	Instructor
IS613*	Cybersecurity Technology & Applications	SHAR LWIN KHIN / YANG GUOMIN
IS621*	Agile & DevSecOps	DON TA
CS612*	AI System Evaluation	SUN JUN
CS617	AI-Driven Security Analysis new	SHAR LWIN KHIN
IS639	Threat Intelligence & Incident Response new	LIM YI HAO
IS641	Strategic Cybersecurity Management new	OUH ENG LIEH
IS618	Cloud Security new	SHAR LWIN KHIN / SIM CHER BOON
IS640	Enterprise Cryptography new	YANG GUOMIN / LIM HOON WEI

Course area: TECH (Information Technology Mgmt)		
Code	Course Title	Instructor
IS613*	Cybersecurity Technology & Applications	SHAR LWIN KHIN / YANG GUOMIN
IS602	Spreadsheet Modeling for Decision Making	ALDY GUNAWAN / MICHELLE CHEONG / MA NANG LAIK / SU SHIYAN
IS603*	IT Project & Vendor Management	YAP CHEE YUEN
IS604*	Global Sourcing of Technology & Processes	PATRICK THNG
IS614	IoT: Technology & Applications	PIUS LEE
IS619*	Business Applications of Digital Technology	DARREN THAYRE
IS627	Blockchain Technology	PAUL GRIFFIN
IS630	Statistical Thinking for Data Science	TAN KAR WAY / ONG YONG ZHENG
IS628	Computational Thinking with Python	JEAN CHEN / DAI BING TIAN / JAMES KOH / ONG YONG ZHENG
IS634	Web3 Fundamentals	ZHU FEIDA
IS631	Modern Software Solution Development	DON TA
IS635	Low Code Application Development new	ALAN MEGARGEL
IS638	Global Exposure Project (SMU-XO) new	PATRICK THNG

PRACTICUM	
Code	Course Title
IS611	Internship
IS612	Capstone Project

* This course is cross-listed in multiple course areas.

Below courses will be offered in alternate years starting with AY2025-26. That is, offered in AY2025-26, not offered in AY2026-27, offered in AY2027-28, and so on...

- IS627 "Blockchain Technology"
- IS614 "IoT: Technology & Applications"
- ISF622 "Quantum Computing in Financial Services"
- ISS5604 "Applied Data Science in Operations"

Below course will be offered in alternate years starting with AY2026-27. That is, offered in AY2026-27, not offered in AY2027-28, offered in AY2028-29, and so on...

- IS625 "Digital Enterprise Architecture"

COURSE PRE-REQUISITES :			
Code	Course Title	Pre-requisite / Co-requisite	Preferred, but not compulsory
ISF620	Data Science in Financial Services	Pre-req: ISS5622 OR IS628	-
ISF622	Quantum Computing in Financial Services	-	ISF614, ISS5622 OR IS628
ISF623	Risotech and Regtech	Pre-req: ISS5622 OR IS628	
IS627	Blockchain Technology		It is desirable to have some coding experience as well as the use of basic Linux command line.
ISS5621	Data Science for Business	Pre-req: ISS5622 OR IS628	-
ISS5604	Applied Data Science in Operations	-	ISS5602, ISS5616 OR IS630
ISS5609	Text Analytics	-	ISS5622 OR IS628
CS602	Algorithm Design	Co-req: ISS5622 OR IS628	
CS601	AI and Uncertainty Reasoning	Pre-req: CS602	
CS610	Applied Machine Learning	Pre-req: ISS5622 OR IS628	
CS604	Deep Learning for Visual Recognition		
CS605	Natural Language Processing for Smart Assistants	Pre-req: ISS5622 OR IS628	
CS611	Machine Learning Engineering	Co-req: CS610	
CS614	Generative AI with Large Language Models		
CS608	Recommender Systems	Pre-req: CS602 Co-req: CS610	
CS609	Introduction to Reinforcement Learning	Pre-req: CS601 OR (CS602 AND (CS610 OR CS604 OR CS605))	
CS612	AI System Evaluation	Pre-req: CS610 OR CS604 OR CS605 OR CS611	

Students who have already read ISS5622 "Python Prog. & Data Analysis"(retired course) will not be able to read IS628 "Computational Thinking with Python" anymore due to course content overlaps. Students who have already read ISS5616 "Applied Stat. Analysis with R"(retired course) will not be able to read IS630 "Statistical Thinking for Data Science" anymore due to course content overlaps. Students who have already read CS615 (retired 0.5CU course) will not be able to read CS621 "Agentic AI for Intelligent Autonomy" anymore due to course content overlaps. Students who have already read CS616 (retired 0.5CU course) will not be able to read CS619 "AgenHuman-AI Interaction Design" anymore due to course content overlaps.