

學院 Faculty：應用科學學院 Faculty of Applied Sciences

課程 Programme：電腦學學士學位課程 / 電腦學理學士學位課程 Bachelor of Science in Computing

年級 Year	學科單元 Learning Module	班別編號 Class Code	教師 Instructor	課 本 (* = 參考書) Text Book (* = Reference Book)	版本 Edition	出版社 Publisher	作者 Author	備註 / ISBN Remark / ISBN
1	Introduction to Computer Science and its Application	COMP1121	Wang Ke	Discovering Computers: Digital Technology, Data, and Devices	2023	Cengage Learning	Misty E. Vermaat, Susan L. Sebok, Steven M. Freund, Jennifer T. Campbell and Mark Frydenberg	9788000040172
	Introduction to Programming	COMP1122	Chester Wong	Introduction to Computation and Programming Using Python (Paperback)	3e / 2021	MIT Press	John V. Guttag	9780262542364
	Linear Algebra	MATH1111	Wang Duo, Charles Lam	Introduction to Linear Algebra	6e / 2023	MIT Press	Gilbert Strang	9781733146678
	Calculus	MATH1112	Lei Kin	SI UNITS THOMAS CALCULUS SI THOMAS CALCULUS VS EB	15e / 2023	Pearson	George B. Thomas	9781292459677 9781292727936 (EBOOK)
	Constitution and Basic Law	LLAW1110	Yolanda Leong	* Explaining the Macao Basic Law	2020	“One Country, Two Systems” Research Centre of MPU	Li, L. N. & Xu, C. (eds.)	9789996522291
				* Constitution	6e / 2018	Beijing: Renmin University of China Press	Xu, C. & Hu, J.	---
	English I	MENG1111	Daisy Jiang Jovy Wong Leung Kei Wei Cheung Lai Yee	Cutting Edge (Intermediate)	3e / 2013	Pearson Longman	Cunningham S., P. Moor, and J. Bygrave	9781447936879
				* Ready to Write	3e / 2010	Pearson Longman	Blanchard, K. and C. Root	9780131363304
				* Success with Reading 1	2019	Cosmos Culture	Gionis, T.	9786263000384

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2	English III	MENG2111	Zachary Chui, Cheung Lai Yee	Cutting Edge (Upper Intermediate)	3e / 2013	Pearson Longman	Cunningham S., P. Moor, and J. Bygrave	9781447936985
				* Interaction Reading One	2009	McGraw Hill Education	Kirn, E. & Hartmann, P.	9787546301815
				* Ready to Write	3e / 2010	Pearson Longman	Blanchard, K. & C. Root	9780131363304
	Statistics	MATH2111	Rao WenWang	Elementary Statistics: Picturing the World	2018 Global Edition	Pearson	Larson, R. & Farber, M.	9781292260464 9781292260556 (EBOOK)
	Data Structures and Algorithms	COMP2113	Dennis Wong Lin Hong	Data Structures and Algorithms in Python	2013	Wiley	Michael T. Goodrich, Roberto Tamassia, Michael H. Goldwasser	9781118290279
				* Introduction to Algorithms	4e / 2022	MIT Press	Thomas H. Cormen., Charles E. Leiserson, Ronald L. Rivest, Clifford Stein	9780262046305
	Operating Systems	COMP2113	Dennis Wong	Operating Systems: Internals and Design Principles	9e / 2017	Prentice Hall	William Stallings	9781292214306 (EBOOK)
				* Operating System Concepts	2018 Global Edition	John Wiley & Sons	Abraham Silberschatz, Peter Baer Galvin and Greg Gagne	9781119455868
				* Hands-on System Programming with Linux	2018	Packt Publishing	Kaiwan N Billimoria	9781788998475
	Database Design	COMP2111	Calana Chan	DATABASE SYSTEMS: A Practical Approach to Design, Implementation and Management	2015	Pearson	Connolly, Begg	9781292061849 (EBOOK)

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3	Advanced Web Development	COMP3122	Lin Hong	* JavaScript: The Good Parts	2008	O'Reilly	Douglas Crockford	9780596517748
				* Getting to Know Vue.js	2018	Apress	Brett Nelson	9781484237809
				* Pro RESTful APIs: Design, Build and Integrate with REST, JSON, XML and JAX-RS	2017	Apress	Sanjay Patni	9781484226643
	Human Factors and Human Interfaces	COMP3115	Wilson Ho	Designing The User Interface: Strategies for Effective Human-Computer Interaction	6e / 2017	Pearson	Ben Shneiderman and Catherine Plaisant	9781292153926 (EBOOK)
	Project Management	COMP3112	Andrew Siu	Information Technology Project Management	2019	Course Technology	Schwalbe, Kathy	9788000014166
	Data Driven Business Management	COMP3116	TBA	Data-Driven Decision - Making for Business (Printbook)	2024	Routledge	Claus Grand Bang	9781032601496
	Principles of Gaming Technology	COMP3119	Andrew Siu	Principles of Gaming Technologies	2021	McGraw-Hill	Andrew Siu, Philip Lei	9789814923231
	Introduction to Education	EDUC3111	Gavin Wu	Teaching for Student Learning: Becoming a Master Teacher	2024	Cengage	I. Ryan, K., Cooper, J. & Tauer, S.	9780357765876
	Introduction to Marketing	MSEL3105	TBA	Principles of Marketing	19e / 2023	Pearson	kolter A and Armstrong G	9781292449364 9781292449333 (EBOOK)
	Risk Management in Business	MSEL3109	Si Tou Chi Fai	No textbook needed				
	E-Government	MSEL3110	Chan Ka Man	Digital Government: Managing Public Sector Reform in the Digital Era	2020	Routledge	Frederic P. Miller, Agnes F. Vandome, and John McBrewster	9781138655652
	Science Communications	MENG3111	Ho Sio Wa, Si Tou Chi Fai, Daisy Jiang	No textbook needed				
	English V	MENG311	TBA	Cutting Edge (Upper Intermediate)	3e / 2013	Pearson Longman	Cunningham S., P. Moor, and J. Bygrave	9781447936985
				* Technology in Action (Complete Version)	12e / 2016	Prentice Hall	Alan Evans, Kendall Martin, and Mary Anne Poatsy	9781292099682 (EBOOK)
				* Technical Communication	13e / 2015	Longman	John M. Lannon & Laura J. Gurak	9781292154305 (EBOOK)

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4	Selected Topics 1 (Smart Tourism)	COMP406	Leung Kei Wai	No textbook needed				
	Selected Topics 2 (Machine Learning Application Development)	COMP407	Tan Tao	Machine Learning with PyTorch and Scikit-Learn: Develop Machine Learning and Deep Learning Models with Python	2022	Packt Publishing	Sebastian Raschka, Yuxi (Hayden) Liu, Vahid Mirjalili, Dmytro Dzhulgakov	9781801819312
	Selected Topics 3 (Linear Algebra)	COMP408	Wang Duo	Introduction to Linear Algebra	6e / 2023	MIT Press	Gilbert Strang	9781733146678
	Digital Image and Video Processing	COMP411	June Liu	Digital Image Processing	2017 Global Edition	Pearson	R. Gonzalez	9781292223049
				Digital Image Processing Using Matlab	3e / 2020	Gatesmark	R. Gonzalez, R. Woods and S. Eddins	9780982085417
				* The Essential Guide to Video Processing	2009	Academic Press	A. Bovik	9780123744562
	Computer Security	COMP412	Amang Kim	No textbook needed				
	Enterprise System and Application Development	COMP413	Liam Lei	Java EE 8 Application Development (Printbook)	2017	Packt Publishing	David R. Heffelfinger	9781788293679
				* Beginning Jakarta EE Web Development	2020	Apress	Luciano Manelli	9781484258651
				* Practical Database Programming with Java	2011	Wiley-IEEE Press	Ying Bai	9780470889404
	Gaming Technology II	COMP414	Philip Lei	Principles of Gaming Technologies	2021	McGraw-Hill	Andrew Siu, Philip Lei	9789814923231
				* Casino Accounting and Financial Management	2008	University of Nevada Press	Greenlees, E. M.	9780874177671
				* The Doctrine of Chances: Probabilistic Aspects of Gambling	2010	Springer	Ethier, Stewart. N.	9783540787822
	Teaching Practice I	EDUC411	Rebecca Choi	No textbook needed				