

2026/2027學年第一學期書單

Booklist for 1st Semester of Academic Year 2026/2027

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

課程 Programme：人工智能學士學位課程 Bachelor of Science in Artificial Intelligence

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 (EBOOK)
	Introduction to Programming	COMP1122	JiaDengqiang	Introduction to Computation and Programming Using Python	3e / 2021	MIT Press	John V. Guttag	9780262542364
	Linear Algebra	MATH1111	Wang Duo	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
	English I	MENG1111	Jiang Shujing Wong Kuan Fu Vong Chon Cheng	Cutting Edge(Intermediate)	3e / 2013	Pearson Longman	Cunningham S., P. Moor, and J. Bygrave	9781447936879
2	English III	MENG2111	Wong Kuan Fu Leung Kei Wei Si Tou Chi Fai	Cutting Edge(Upper Intermediate)	3e / 2013	Pearson Longman	Cunningham S., P. Moor, and J. Bygrave	9781447936985
	Introduction to Data Science	CSAI2123	Zhang Jie	Python Data Science Handbook: Essential Tools for Working with Data	2017	O'Reilly Media	Jake VanderPlas	9781098121228
	Probability and Statistics	CSAI2121	Charles Lam	Elementary Statistics: Picturing the World	Global Edition	Pearson	Larson, R. & Farber, M.	9781292260464 9781292260556 (EBOOK)
	Data Structures and Algorithms	COMP2113	Lin Hong	Data Structures and Algorithms in Python	2013	Wiley	Michael T. Goodrich, Roberto Tamassia, Michael H. Goldwasser	9781118290279
				* Introduction to Algorithms	3e / 2009	MIT Press	Thomas H. Cormen., Charles E. Leiserson, Ronald L. Rivest, Clifford Stein	9780262033848
	Operating Systems	COMP2113	Xing Zheng	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 Wilson Ho	DATABASE SYSTEMS: A Practical Approach to Design, Implementation and Management	6e / 2015	Pearson	Connolly, Begg	9781292061849 (EBOOK)

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3	Advanced Web Development	COMP3111	Chester Wong	* JavaScript from Beginner to Professional: Learn JavaScript quickly by building fun, interactive, and dynamic web apps, games, and pages	2021	Packt Publishing	Laurence Lars Svekis, Maaïke van Putten, Rob Percival	9781800566774
				* 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
	Project Management	COMP3112	Andrew Siu	Information Technology Project Management	2019	Course Technology	Schwalbe, Kathy	9788000014166 (EBOOK)
	Machine Learning and Intelligent Data Analysis	CSAI3121	Siu Weng In	* Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems 2nd Edition	2023	O'Reilly	Aurélien Géron	9781098125974
				* Fundamentals of Machine Learning for Predictive Data Analytics, second edition: Algorithms, Worked Examples, and Case Studies	2020	MIT	John D. Kelleher, Brian Mac Namee and Aoife D'Arcy	9780262361101
	Natural Language Processing	CSAI3122	Liang Shansong	No textbook needed				
4	Science Communications	MENG3111	Ho Sio Wa Si Tou Chi Fai Daisy Jiang	No textbook needed				
	Computer Security	COMP4111	Kim Songkyoo	Cryptography and Network Security: Principles and Practice	8e / 2023	Pearson	William Stallings	9781292437491 (EBOOK)
	Internship	COMP4127	Wang Yapeng	No textbook needed				
	Digital Image and Multimedia Processing	COMP4116	Han Luyi	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
	Human Factors and User Interfaces	CSAI4121	Ho Ka Chong	Designing The User Interface: Strategies for Effective Human-Computer Interaction	6e / 2017	Pearson	Ben Shneiderman and Catherine Plaisant	9781292153926 (EBOOK)