

# 2025/2026學年第一學期書單

# Booklist for 1<sup>st</sup> Semester of Academic Year 2025/2026

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<br>Year | 學科單元<br>Learning Module                              | 班別編號<br>Class Code | 教師<br>Instructor                                            | 課 本 (* = 參考書)<br>Text Book (* = Reference Book)                      | 版本<br>Edition | 出版社<br>Publisher                                  | 作者<br>Author                                                                                 | 備註 / ISBN<br>Remark / ISBN             |
|------------|------------------------------------------------------|--------------------|-------------------------------------------------------------|----------------------------------------------------------------------|---------------|---------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------|
| 1          | Introduction to Computer Science and its Application | COMP1121           | Wang Ke                                                     | Discovering Computers: Digital Technology, Data, and Devices         | 17e / 2022    | Cengage Learning                                  | Misty E. Vermaat, Susan L. Sebok, Steven M. Freund, Jennifer T. Campbell and Mark Frydenberg | 9789815097313<br>9788000040172 (EBOOK) |
|            | 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,<br>Charles Lam                                    | Introduction to Linear Algebra                                       | 6e / 2023     | MIT Press                                         | Gilbert Strang                                                                               | 9781733146678                          |
|            | Calculus                                             | MATH1112           | Lei Kin                                                     | SI UNITS THOMAS CALCULUS<br>SI THOMAS CALCULUS VS EB                 | 15e / 2023    | Pearson                                           | George B. Thomas                                                                             | 9781292459677<br>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<br>Jovy Wong<br>Leung Kei Wei<br>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,<br>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                          |
|            | 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                                      | 2019 Global Edition | Pearson               | Larson, R. & Farber, M.                                                   | 9781292260464<br>9781292260556 (EBOOK) |
|            | Data Structures and Algorithms | COMP2113           | Dennis Wong<br>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 | 6e / 2015           | Pearson               | Connolly, Begg                                                            | 9781292061849 (EBOOK)                  |

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|------------|------------------------------------------------|--------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|----------------------------------------------------|----------------------------|
| 3          | Advanced Web Development                       | COMP3111           | 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              |
|            | Project Management                             | COMP3112           | Andrew Siu                             | Information Technology Project Management                                                                                                      | 9e / 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           | Patrick Pang                           | * Text Analytics: An Introduction to the Science and Applications of Unstructured Information Analysis                                         | 2022          | Routledge         | John Atkinson-Abutridy                             | 9781032245263              |
|            |                                                |                    |                                        | * Text Mining for Information Professionals: An Uncharted Territory(Printbook)                                                                 | 2022          | Springer          | Manika Lamba, Margam Madhusudhan                   | 9783030850845              |
|            |                                                |                    |                                        | * Natural Language Processing with Python – Analyzing Text with the Natural Language Toolkit                                                   | 2009          | O'Reilly          | Steven Bird, Ewan Klein, Edward Loper              | 9780596516499              |
|            | Science Communications                         | MENG3111           | Ho Sio Wa, Si Tou Chi Fai, Daisy Jiang | No textbook needed                                                                                                                             |               |                   |                                                    |                            |