

The Hong Kong University of Science and Technology  
**School of Business and Management**  
 An Example on Student's Pathway (as of 30 July 2025)

**RMBI**  
**via SENG**

← Major declaration

| School: School of Business and Management  |                             |  |     | Student's Pathways (i.e. Study Pattern)   |               |             |               |             |               |             |               |           |  | Remarks |
|--|-----------------------------|--|-----|---|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-----------|--|---------|
| Department: Department of Information Systems, Business Statistics & Operations Management |                             |  |     | Pathway 3   |               |             |               |             |               |             |               |           |  |         |
| Program: BSc in Risk Management and Business Intelligence                                  |                             |  |     | Background: Admitted to RMBI in Year 2  |               |             |               |             |               |             |               |           |  |         |
| Course Offering Dept (course code prefix)  |                             |  |     | Profile: Normative. Students to graduate in BSc RMBI with Financial Technology Option |               |             |               |             |               |             |               |           |  |         |
| Course Code  | Course Title / Courses List | Credits  |     | Year 1 Fall   | Year 1 Spring | Year 2 Fall | Year 2 Spring | Year 3 Fall | Year 3 Spring | Year 4 Fall | Year 4 Spring | Sub-total |  |         |
| <b>Major Requirements</b>  |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| <b>Major Required Courses and Electives</b>  |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| ACCT   | 2010                        | Principles of Accounting I   | 3   |   |               | 3           |               |             |               |             |               | 3         |  |         |
| COMP   | 1023                        | Introduction to Python Programming   | 3   | 3   |               |             |               |             |               |             |               | 3         |  |         |
| COMP/ISOM  | 4331                        | Note: COMP 4331 OR ISOM 3360<br>Data Mining  | 3   |   |               |             |               | 3           |               |             |               | 3         |  |         |
| ISOM   | 3360                        | Data Mining for Business Analytics   | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| COMP/ISOM  | 4651                        | Note: COMP 4651 OR ISOM 3370<br>Cloud Computing and Big Data Systems   | 3   |   |               |             |               |             | 3             |             |               | 3         |  |         |
| ISOM   | 3370                        | Big Data Technologies  | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| ECON   | 2103                        | Note: ECON 2103 OR ECON 2113<br>Principles of Microeconomics   | 3   |   |               |             | 3             |             |               |             |               | 3         |  |         |
| ECON   | 2113                        | Microeconomics   | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| ECON   | 2123                        | Macroeconomics   | 3   |   |               |             | 3             |             |               |             |               | 3         |  |         |
| FINA   | 2303                        | Financial Management   | 3   |   |               |             | 3             |             |               |             |               | 3         |  |         |
| ISOM   | 2010                        | Introduction to Information Systems  | 3   |   |               | 3           |               |             |               |             |               | 3         |  |         |
| ISOM   | 2700                        | Operations Management  | 3   |   |               | 3           |               |             |               |             |               | 3         |  |         |
| ISOM/MATH  | 3540                        | Note: ISOM 3540 OR MATH 2421<br>Introduction to Probability Models   | 3-4 |   |               |             |               | 3           |               |             |               | 3         |  |         |
| MATH   | 2421                        | Probability  | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| ISOM   | 3710                        | Business Modeling and Optimization   | 4   |   |               |             |               |             | 4             |             |               | 4         |  |         |
| ISOM   | 4520                        | Statistics for Financial Risk Management   | 4   |   |               |             |               |             |               |             | 4             | 4         |  |         |
| MATH   |                             | Note: [(MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR<br>[MATH 1020]  | 4-6 |   |               |             |               |             |               |             |               | 4-6       |  |         |
| MATH   | 1013                        | Calculus I   | 3   | 3   | 3             |             |               |             |               |             |               | 6         |  |         |
| MATH   | 1014                        | Calculus II  | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| MATH   | 1020                        | Accelerated Calculus   | 4   |   |               |             |               |             |               |             |               | 4         |  |         |
| MATH   | 1023                        | Honors Calculus I  | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| MATH   | 1024                        | Honors Calculus II   | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| MATH   | 2011                        | Note: MATH 2011 OR MATH 2023<br>Introduction to Multivariable Calculus   | 3-4 |   |               |             | 3             |             |               |             |               | 3         |  |         |
| MATH   | 2023                        | Multivariable Calculus   | 4   |   |               |             |               |             |               |             |               | 4         |  |         |
| MATH   | 2111                        | Note: MATH 2111 OR MATH 2121<br>Matrix Algebra and Applications  | 3-4 |   |               | 3           |               |             |               |             |               | 3         |  |         |
| MATH   | 2121                        | Linear Algebra   | 4   |   |               |             |               |             |               |             |               | 4         |  |         |
| MATH   | 2411                        | Applied Statistics   | 4   |   |               | 4           |               |             |               |             |               | 4         |  |         |
| MGMT   | 2130                        | Business Ethics and Social Responsibility  | 2   |   |               | 2           |               |             |               |             |               | 2         |  |         |
| RMBI   | 2001                        | Academic and Professional Development in Risk Management and Business Intelligence   | 0   |   |               | 0           | 0             | 0           | 0             | 0           | 0             | 0         |  |         |
| RMBI   | 3110                        | Introduction to Risk Management and Business Intelligence  | 3   |   |               | 3           |               |             |               |             |               | 3         |  |         |
| RMBI   | 4310                        | Advanced Data Mining for Risk Management and Business Intelligence   | 3   |   |               |             |               | 3           |               |             |               | 3         |  |         |
| RMBI   | 4980                        | Risk Management and Business Intelligence Capstone Project I   | 4   |   |               |             |               |             | 4             |             |               | 4         |  |         |
| RMBI   | 4990                        | Risk Management and Business Intelligence Capstone Project II  | 4   |   |               |             |               |             |               | 4           |               | 4         |  |         |
| SSCI/SENG/SBM  |                             | Risk Management and Business Intelligence Electives (9 credits from the specified electives list, of which at least 1 course should be taken from a single specialty area (Area 1 or Area 2). Out of the 9 credits taken, at least 6 credits should be at 3000-level or above) | 9   |   |               |             |               | 3           | 3             | 3           |               | 9         |  |         |
| <b>Required credits for Major Required Courses and Electives</b>                           |                             |  |     |   |               |             |               |             |               |             |               | 77 - 82   |  |         |
| <b>Option Requirements</b>   |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| <b>Financial Technology Option</b>   |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| IEDA/ISOM  | 4500                        | Note: IEDA4500 OR ISOM 3350<br>Engineering Foundations of FinTech  | 3   |   |               |             |               | 3           |               |             |               | 3         |  |         |
| ISOM   | 3350                        | FinTech and Cryptoventures   | 3   |   |               |             |               |             |               |             |               | 3         |  |         |
| RMBI/FINA/ISOM/C   |                             | Financial Technology Electives (Courses from the specified elective list. Courses taken as Major Electives may not be counted toward this requirement)   | 6   |   |               |             |               | 3           |               | 3           |               | 6         |  |         |
| OMP/MATH   |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| <b>Required credits for Financial Technology Option</b>                                    |                             |  |     |   |               |             |               |             |               |             |               | 9         |  |         |
| <b>University Legal Education Requirements</b>   |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| LEGL   | 1000                        | Legal Education (Basic Law, National Security Law and Safeguarding National Security Ordinance)  | 0   | 0   | 0             | 0           | 0             | 0           | 0             | 0           | 0             | 0         |  |         |
| <b>Sub-total for University Legal Education Requirements</b>                               |                             |  |     |   |               |             |               |             |               |             |               | 0         |  |         |
| <b>University Common Core</b>  |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| CORE   | C3 - C10                    | U CORE - Others  | 24  | 1   | 2             | 0           | 3             | 6           | 0             | 6           | 6             | 24        |  |         |
| CORE   | C1 & C2                     | U CORE - English Language  | 6   | 3   | 3             |             |               |             |               |             |               | 6         |  |         |
| <b>Sub-total for University Common Core</b>  |                             |  |     |   |               |             |               |             |               |             |               | 30        |  |         |
| Term load (excl. free credits)   |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| 10    8    18    18    18@    16@    16@    14   |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |
| <b>109 (w/o option)   118 (w/ option) #</b>  |                             |  |     |   |               |             |               |             |               |             |               |           |  |         |

Notes:

# To graduate, students should complete at least 120 credits in approved courses. They may need to take courses additional to the required and elective courses as specified above to meet this minimum credit requirement.

@ Including 3 credits from the Option

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.