The Hong Kong University of Science and Technology

RMBI via SENG

School of Business and Management

An Example on Student's Pathway (as of 1 September 2023)

Major declaration

School:	**School of Business and Management**
Department:	**Department of Information Systems, Business Statistics & Operations Management**
Program:	**BSc in Risk Management and Business Intelligence**

Student's Pathways (i.e. Study Pattern)

Pathway 3

Background: Admitted to RMBI in Year 2

Profile: Normative. Students to graduate in BSc RMBI with Financial Technology Option

Course Offering Dept (course code prefix)	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**
Major Requirements												
Major Required Courses and Electives												
ACCT	2010	Principles of Accounting I	3			3						3
COMP		Note: COMP 1021 OR COMP 1022P	3									
COMP	1021	Introduction to Computer Science	3	3								3
COMP	1022P	Introduction to Computing with Java	3									
COMP/ISOM		Note: COMP 4331 OR ISOM 3360	3									
COMP	4331	Data Mining	3					3				3
ISOM	3360	Business Intelligence and Data Mining	3									
COMP/ISOM * ~		Note: COMP 4651 OR ISOM 3370	3									
COMP	4651	Cloud Computing and Big Data Systems	3						3			3
ISOM	3370	Big Data Technologies	3									
ECON		Note: ECON 2103 OR ECON 2113	3									
ECON	2103	Principles of Microeconomics	3					3				3
ECON	2113	Microeconomics	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	3540	Introduction to Probability Models	3					3				3
ISOM	3710	Business Modeling and Optimization	4						4			4
ISOM	4520	Statistics for Financial Risk Management	4								4	4
LABU	2051	Business Case Analyses I	2			2						2
LABU	2052	Business Case Analyses II	2				2					2
MATH		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7									
MATH	1012	Calculus IA	4									
MATH	1013	Calculus IB	3	3-4	3							4-7
MATH	1014	Calculus II	3									
MATH	1020	Accelerated Calculus	4									
MATH	1023	Honors Calculus I	3									
MATH	1024	Honors Calculus II	3									
MATH	2011	Introduction to Multivariable Calculus	3					3				3
MATH		Note: MATH 2111 OR MATH 2121	3-4									
MATH	2111	Matrix Algebra and Applications	3			3-4						3-4
MATH	2121	Linear Algebra	4									
MATH	2411	Applied Statistics	4			4						4
MGMT	2010	Business Ethics and the Individual	2			2						2
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	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 elective list, of which at least 3 credits 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			6		9
		Required credits for Major Required Courses and Electives	83 - 87	6 - 7	3	14 - 15	17	14	13	10	8	83 - 87
Option Requirements												
Financial Technology Option												
-Requred Course (3 credits)												
IEDA/ISOM		Note: IEDA4500 OR ISOM 3350	3			Choose 3 credits						9
IEDA	4500^	Engineering Foundations of FinTech	3									
ISOM	3350	FinTech and Cryptoventures	3									
-Elective Course (2 courses from the specified elective list) (6 credits)												
COMP	3211	Fundamentals of Artificial Intelligence	3			Choose 6 credits						
COMP	3632	Principles of Cybersecurity	3									
COMP	4221	Introduction to Natural Language Processing	3									
COMP	4632	Practicing Cybersecurity: Attacks and Counter-measures	3									
COMP	4911	IT Entrepreneurship	3									
ISOM	3000B	Blockchain Entrepreneurship for Social Impact	3									
ISOM	4020	Innovation Management and Technology Entrepreneurship	3									
ISOM	4200	Information and Cyber Security Management	3									
MATH	4514	Financial Economics in Actuarial Science	3									
RMBI	4220	Life Contingencies Models and Insurance Risk	3									
		Required credits for Financial Technology Option	9									9
University CORE												
CORE	C3 - C12	U CORE - Others	24	4	2	3	0	0	6	3	6	24
CORE	C1 & C2	U CORE - English Language	6	3	3							6
		Sub-total for University CORE	30	7	5	3	0	0	6	3	6	30
				Term load (excl. free credits)								
				13 - 14	8	17 - 18	17	17@	19	16@	17@	
				113-117# (w/o option)								122-126 (w/ option)

Notes:

[ ] denotes the course is also offered in other terms as indicated and students may take the course in one of these terms subject to advice by the program office.

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.

* The pre-requisite of ISOM 3370 can be waived if students have taken COMP 1021 OR COMP 1022P.

~ Student who wish to take COMP4651 should take COMP2011 in Area 2: BI

^ Student who wish to take IEDA4500 should take FINA3203 in Area 1: RM

@ 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.

2023-24 RMBI (4Y) (2023-24 Intake)