

The Hong Kong University of Science and Technology

School of Science

An Example on Student's Pathway (as of 25 July 2023)

<< Declaration of major

School:		School of Science			Student's Pathways (i.e. Study Pattern)										Remarks
Department:		Department of Mathematics			Pathway 1										
Program:		BSc in Mathematics and Economics			Background: HKDSE 4 core + 1 Elec (ECON) + MATH M1/M2 Profile: Normative										
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Major Pre-requisite	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															
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												
MATH	1014	Calculus II	3		3	3							6		
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2023	Multivariable Calculus	4				4						4		
MATH	2033	Note: MATH 2033 OR MATH 2043 Mathematical Analysis	4					4					4		
MATH	2043	Honors Mathematical Analysis	4												
MATH	2121	Note: MATH 2121 OR MATH 2131 Linear Algebra	4					4					4		
MATH	2131	Honors in Linear and Abstract Algebra I	4												
MATH	2411	Applied Statistics	4					4					4		
MATH	3033	Note: MATH 3033 OR MATH 3043 Real Analysis	4						4				4		
MATH	3043	Honors Real Analysis	4												
MATH/ECON	4994	Note: MATH 4994 OR MATH 4999 OR ECON 4670 Capstone Project in Mathematics and Economics	0-3									3	3		
MATH	4999	Independent Capstone Project	3												
ECON	4670	Economics Research and Communication	0												
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3					3					3		
ECON	2113	Microeconomics	3												
ECON	3113	Microeconomic Theory I	4						4				4		
ECON	3123	Macroeconomic Theory I	3						3				3		
ECON	3133	Microeconomic Theory II	4							4			4		
ECON	3143	Macroeconomic Theory II	4							4			4		
ECON	3334	Introduction to Econometrics	4								4		4		
ECON	3700	Writing as an Economist	3								3		3		
ACCT	2010	Principles of Accounting I	3		3								3		
FINA	2203	Fundamentals of Business Finance	3			3							3		
COMP	1021	Note: COMP 1021 OR COMP 1022P Introduction to Computer Science	3										3		
COMP	1022P	Introduction to Computing with Java	3												
LABU	2040	Business Case Analyses	3					3					3		
MATH		MATH Depth Electives (2 courses from the specified elective list. Courses taken as Major Required Courses may not be counted towards this elective requirement.)	6								3	3	6		
ECON		ECON 4000-level or above Electives (At least 2 courses of the subject and level as specified)	8								4	4	8		
SSCI		Science Foundation course (2 courses from the specified elective list)	6		3	3							6		
Required credits for Major Required Courses and Electives			81-87										86		
University CORE															
CORE	C3 - C10	U CORE - Others	24		1	2	3	3	3	3	3	6	24		
CORE	C1 & C2	U CORE - English Language	6		3	3							6		
Sub-total for University CORE			30										30		
Term load (excl. free credits)															
					13	17	18	17	15	17	13	6			
116#															

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Note:

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 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 for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.