

School:		School of Engineering and School of Business Management			<< Selection of BEng major		<< Declaration of BEng major		<< Selection of BBA major		Student's Pathway											
Program:		Dual Degree Program (BEng in Artificial Intelligence and BBA in Economics)																				
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	Year 5 Fall	Year 5 Spring	Sub-Total	Remarks					
BEng in Artificial Intelligence (AI)																						
Engineering Fundamental Courses																						
COMP	1023	Introduction to Python Programming Note: [MATH 1013 OR MATH 1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]			4-6										3	Students should take COMP1023 which will also be used to substitute ISOM 2010 and to waive ISOM 2020						
MATH	1013	Calculus IB			3		3									6	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees					
MATH	1014	Calculus II			3																	
MATH	1020	Accelerated Calculus			4																	
MATH	1023	Honors Calculus I			3																	
MATH	1024	Honors Calculus II			3																	
		Note: MATH 2121 OR MATH 2131			4																	
MATH	2121	Linear Algebra			4			4								4						
MATH	2131	Honors in Linear and Abstract Algebra I			4																	
Required Credits for Engineering Fundamental Courses					11-13	6	3	4	0	0	0	0	0	0	0	13						
Major Required Courses and Electives																						
COMP	1944	Artificial Intelligence Ethics			3	3										3						
		Note: (COMP 2011 AND COMP 2012) OR COMP 2012H			5-8																	
COMP	2011	Programming with C++			4			4	4							8						
COMP	2012	Object-Oriented Programming and Data Structures			4																	
COMP	2012H	Honors Object-Oriented Programming and Data Structures			5																	
COMP	2211	Exploring Artificial Intelligence			3		3									3						
COMP	2811	Computer Organization			4			4								4						
		Note: COMP 2711 OR COMP 2711H			4																	
COMP	2711	Discrete Mathematical Tools for Computer Science			4			4								4						
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science			4																	
COMP	3211	Fundamentals of Artificial Intelligence			3					3						3						
		Note: COMP 3711 OR COMP 3711H			3-4																	
COMP	3711	Design and Analysis of Algorithms			3					3						3						
COMP	3711H	Honors Design and Analysis of Algorithms			4																	
COMP	4211	Machine Learning			3						3					3						
		Note: COMP 4221 OR COMP 4471			3																	
COMP	4221	Introduction to Natural Language Processing			3						3					3						
COMP	4471	Deep Learning in Computer Vision			3																	
		Note: Students are required to take COMP 4900 for every regular term in which they are in residency at HKUST with major in COMP Academic and Professional Development			0	0	0	0	0	0	0	0	0	0	0	0						
COMP	4900				6																	
		Note: [COMP 1991 AND (COMP 4981 OR COMP 4981H)] OR [COMP 4910]			6																	
COMP	1991	Industrial Experience			0								0	3	3	6						
COMP	4910	Co-op Program			0																	
COMP	4981	Final Year Project			6																	
COMP	4981H	Final Year Thesis			6																	
MATH	2411	Applied Statistics			4				4							4	Students should take MATH2411 which will also be used to substitute ISOM2000					
		COMP Electives (6 courses from the specified elective list, of which at least 4 courses should be taken from Artificial Intelligence area and at least 2 courses from Other COMP area)			18							6	6	3	3	18						
BEng in Artificial Intelligence Major Requirements					59-63	3	3	8	12	6	6	6	6	6	6	62						
BBA in Economics																						
School Requirements																						
ACCT	2010	Principles of Accounting I			3			3								3						
ACCT	2200	Principles of Accounting II			3						3					3						
		Note: ECON 2103 OR ECON 2113			3																	
ECON	2103	Principles of Microeconomics			3				3							3	ECON 2103 / 2113 / 2123 is a major pre-requisite					
ECON	2113	Microeconomics			3																	
		Note: ECON 2123 OR ECON 3123			3																	
ECON	2123	Macroeconomics			3					3						3						
ECON	3123	Macroeconomic Theory I			3																	
FINA	2360	Financial Management			3				3							3						
ISOM	2010	Introduction to Information Systems			3	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 or COMP2011 or COMP2012H instead of ISOM 2010.					
ISOM	2020	Coding for Business			1	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DDP students who have taken and passed COMP 1023, COMP 2011 and COMP 2012H. These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.					
ISOM	2500	Business Statistics			3	-	-	-	-	-	-	-	-	-	-	0	Substituted by MATH 2411					
ISOM	2600	Introduction to Business Analytics			1				1							1						
ISOM	2700	Operations Management			3							3				3						
MARK	2120	Marketing Management			3	3										3						
MGMT	2010	Business Ethics and the Individual			2									2		2						
MGMT	2110	Organizational Behavior			3		3									3						
MGMT	2130	Business Ethics and Social Responsibility			2										2	2						
		Note: MATH 1023 OR MATH 1013 OR MATH 1020 OR MATH 1023			3-4																	
MATH	1003	Calculus and Linear Algebra			3		(3)									0	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees					
MATH	1013	Calculus IB			4																	
MATH	1020	Accelerated Calculus			3																	
MATH	1023	Honors Calculus I			3																	
Required Credits for School Requirements					39-40	3	3	3	7	3	3	3	2	0	2	29						
Major Required Courses and Electives																						
ECON	3014	Managerial Microeconomics			4					4						4						
ECON	3024	Managerial Macroeconomics			4						4					4						
ECON	3334	Introduction to Econometrics			4							4				4						
		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)			11							4	4	4	3	11						
ECON		Required Credits for Major Required Courses and Electives			23	0	0	0	0	4	4	4	4	4	3	23						
Additional Requirement for Dual Degree																						
Requirements for Dual Degree Program																						
TEMG	1011	T&M Professional Activities I			0	0	0									0	To graduate, students should complete ALL requirements as specified for DDP.					
TEMG	1012	T&M Professional Activities II			0			0	0							0						
TEMG	1013	T&M Professional Activities III			0					0	0					0						
TEMG	1014	T&M Professional Activities IV			0							0	0			0						
TEMG	1015	T&M Professional Activities V			0									0	0	0						
TEMG	3950	T&M Case Analysis and Product Innovation			3		3									3						
TEMG	4950	T&M Corporate Consulting Project			3-5					4						4						
Required Credits for Additional Requirements					7	0	3	0	0	4	0	0	0	0	0	7						
University Common Core Requirement																						
CORE		C1 - C9	U CORE - Others		21						3	3	3	6	6	21						
CORE		C1 & C2	U CORE - English Language		6	3	3									6						
HMAN		1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness		3	1	2									3						
Sub-total for University CORE					30	4	6	0	0	0	0	3	3	3	6	6	30					
Term load (excl. free credits)																						
16 17 15 19 17 16 16 15 16 17																104						
164###																						