

School:		School of Engineering and School of Business Management		<< Declaration of BEng major		<< Declaration of BBA major		Student's Pathway												Remarks
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						
BEng in Artificial Intelligence (AI)																				
Engineering Fundamental Courses																				
COMP	1023	Introduction to Python Programming Note: [MATH 1013 OR MATH1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]	3 4-6	3										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	DOP 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	3	3															
MATH	1020	Accelerated Calculus	4																	
MATH	1023	Honors Calculus I	3																	
MATH	1024	Honors Calculus II	3																	
MATH		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 Note: (COMP 2011 AND COMP 2012) OR COMP 2012H	3 5-8					3						3						
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	2611	Computer Organization	4			4								4						
COMP		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 Note: COMP 3711 OR COMP 3711H	3 3-4				3							3						
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						
COMP		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																	
COMP	4900	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 Note: [COMP 1991 AND (COMP 4981 OR COMP 4981H)] OR [COMP 4910]	0 6	0	0	0	0	0	0	0	0	0	0	0						
COMP		Industrial Experience	6																	
COMP	4910	Co-op Program	6									0	3	3	6					
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 ISOM2500					
COMP		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							3	6	6	3	18						
BEng in Artificial Intelligence Major Requirements				59-63	0	4	11	11	9	3	3	6	9	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						
ECON	2103	Note: ECON 2103 OR ECON 2113	3																	
ECON	2113	Principles of Microeconomics	3				3							3	ECON 2103 / 2113 / 2123 is a major pre-requisite					
ECON	2123	Microeconomics	3																	
ECON	3123	Note: ECON 2123 OR ECON 3123	3																	
ECON	3123	Macroeconomics	3					3						3						
ECON	3123	Macroeconomic Theory I	3																	
FINA	2303	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 COMP 1023 or COMP 2011 or COMP 2012H 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						
MATH		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4																	
MATH	1003	Calculus and Linear Algebra	3		(3)									0	DOP 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	3																	
MATH	1020	Accelerated Calculus	4																	
MATH	1023	Honors Calculus I	3																	
Required Credits for School Requirements				39-40	3	3	3	7	3	3	3	2	0	2	25					
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		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11						
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	0	4	0	0	0	0	7					
University Common Core Requirement																				
CORE	C3 - C9	U CORE - Others	21						3	6	3	3	6	21						
CORE	C1 & C2	U CORE - English Language	6	3	3									6						
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2									3						
Sub-total for University CORE				30	4	5	0	0	0	3	6	3	3	6	30					
Term total (excl. free credits)																				
13 18 18 18 18 16 17 16 15 16 17														164						