

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 Management)																																																		
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	3	3										3	Students should take COMP1023 which will also be used to substitute ISOM 2010 and to waive ISOM 2020																																						
		Note: [(MATH 1013 OR MATH1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-6																																																		
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	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	2611	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																																													
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																																																		
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	0	0	0	0	0	0	0	0	0	0	0	0																																							
		Note: [COMP 1991 AND (COMP 4981 OR COMP 4981H)] OR [COMP 4910]	6																																																		
COMP	1991	Industrial Experience	0																																																		
COMP	4910	Co-op Program	6									0	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							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 Management																																																					
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	2113	Microeconomics	3																																																		
		Note: ECON 2123 OR ECON 3123	3																																																		
ECON	2123	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 1023P, 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 or COMP 1023P or COMP2011 or COMP2012H. 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 2110 is a major pre-requisite																																						
MGMT	2130	Business Ethics and Social Responsibility	2										2	2																																							
		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4																																																		
MATH	1003	Calculus and Linear Algebra	3												0																																						
MATH	1013	Calculus IB	3			(3)									DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees																																						
MATH	1020	Accelerated Calculus	4																																																		
MATH	1023	Honors Calculus I	3																																																		
Required Credits for School Requirements				39-40	3	3	3	6	3	4	3	2	0	2	29																																						
Major Required Courses and Electives																																																					
MGMT	3110	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4					4						4	Students in the Consulting Option must take MGMT 3120																																						
MGMT	3120	Human Resources Management	4																																																		
		Managerial Leadership	4																																																		
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4						4					4	Students in the Consulting Option must take MGMT 3140																																						
MGMT	3140	Judgement and Decision Making in Organizations	4																																																		
		Negotiation	4																																																		
MGMT	4210	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)	3-4											3	Students in the Consulting Option must take MGMT 4210																																						
MGMT	4220	Corporate Strategy	3							3					Students in the CSR Option must take MGMT 4210																																						
MGMT		Schumpeterianity and Innovation	4																																																		
MGMT		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9							3	3	3	3	9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement																																						
Required Credits for Major Required Courses and Electives				26-27	0	0	0	0	4	4	3	3	3	3	20																																						
Additional Requirement for Dual Degree																																																					
Requirements for Dual Degree Program																																																					
TEMG	1011	T&M Professional Activities I	0	0	0									0																																							
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	To graduate, students should complete ALL requirements as specified for DDP.																																						
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		3	6	6	3	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								3																																							
Sub-total for University CORE				30	4	5	0	0	0	3	0	3	6	6	3	30																																					
Term load (excl. free credits)																																																					
16 16																																																					