

<< Declaration of
BEng major

<< Declaration of
BBA major

School:		School of Engineering and School of Business Management				Student's Pathway											
Program:		Dual Degree Program (BEng in Computer Science and BBA in Marketing)															
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 Computer Science																	
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 MATH 1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]	6-7													6	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 I	3	3	3												
MATH	1014	Calculus II	3														
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
MATH	1024	Honors Calculus II	3														
		Note: MATH 2111 OR MATH 2121 OR MATH 2131	3-4													3	
MATH	2111	Matrix Algebra and Applications	3			3											
MATH	2121	Linear Algebra	4														
MATH	2131	Honors in Linear and Abstract Algebra I	4														
Required Credits for Engineering Fundamental Courses					6	3	3	0	0	0	0	0	0	0	12		
Major Required Courses and Electives																	
COMP	2011	Note: [COMP 2011 AND COMP 2012] OR COMP 2012H	5-8			4	4								8	4	Students should take MATH 2411 which will also be used to substitute ISOM 2020
COMP	2012	Programming with C++	4														
COMP	2012H	Object-Oriented Programming and Data Structures	4														
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5														
COMP	2811	Computer Organization	4			4									4		
		Note: COMP2711 OR COMP2711H	4														
COMP	2711	Discrete Mathematical Tools for Computer Science	4				4								4		
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4														
		Note: COMP3111 OR COMP3111H	4					4							4		
COMP	3111	Software Engineering	4														
COMP	3111H	Honors Software Engineering	4														
COMP	3511	Operating Systems	3					3							3		
		Note: COMP3711 OR COMP3711H	3-4													3	
COMP	3711	Design and Analysis of Algorithms	3					3									
COMP	3711H	Honors Design and Analysis of Algorithms	4														
COMP	4900	Note: Students are required to take COMP4900 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	0		
		Note: [COMP 1991 AND [COMP 4981 OR COMP 4981H] OR [COMP 4910]	6													6	
COMP	1991	Industrial Experience	0								0			3	3		
COMP	4910	Co-op Program	6														
COMP	4981	Final Year Project	6														
COMP	4981H	Final Year Thesis	6														
ELEC/EDAMATH		Note: ELEC 2600 OR ELEC 2600H OR IEA 2620 OR IEA 2640 OR MATH 2411 OR MATH 2421 OR MATH 2431	3-4													4	
ELEC	2600	Probability and Random Processes in Engineering	4														
ELEC	2600H	Honors Probability and Random Processes in Engineering	3														
IEA	2620	Probability for Engineers	3				4										
IEA	2640	Statistics for Engineers	3														
MATH	2411	Applied Statistics	4														
MATH	2421	Probability	4														
MATH	2431	Honors Probability	4														
COMP		COMP 2000-level or above Elective (Any course(s) of the subject and level as specified)	3					3							3		
		COMP Electives (5 courses from the specified elective list, of which at least 3 courses should be taken from 1 area and at least 2 courses outside that area (including course(s) in the Courses Without Associated Area). Students may use at most one course under Deep Learning Applications (COMP 4471 and COMP 5223) to count towards this elective requirement.)	15							3	3	3	3	3	15		
COMP										3	3	3	3	3	15		
BEng in Computer Science Major Requirements				60-66	0	4	8	12	9	3	3	3	6	6	64		
BBA in Marketing																	
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													3	
ECON	2113	Principles of Microeconomics	3					3									
ECON	2123	Macroeconomics	3													3	
ECON	3123	Macroeconomic Theory I	3						3								
FINA	2303	Financial Management	3					3								3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	0	COMP 1023 is more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 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. The COMP course is similar or more advanced coding (Python) courses as ISOM 2020.	
ISOM	2020	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	MARK 2120 is a major pre-requisite
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 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4													0	DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees
MATH	1003	Calculus and Linear Algebra	3														
MATH	1013	Calculus I	3		(3)												
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
Required Credits for School Requirements				38-40	3	3	3	6	3	4	3	2	0	2	29		
Major Required Courses and Electives																	
MARK	3220	Marketing Research	4						4							4	
MARK	3420	Consumer Behavior	4							4						4	
MARK	4210	Strategic Marketing	4								4					4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12									4	4	4	4	12	
Required Credits for Major Required Courses and Electives				24	0	0	0	0	4	4	4	4	4	4	24		
Additional Requirements 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								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	0		
TEMG	3950	T&M Case Analysis and Product Innovation	3		3										3		
TEMG	4950	T&M Corporate Consulting Project	3-6							4					4		
Required Credits for Additional Requirements				7	0	3	0	0	0	4	0	0	0	0	7		
University Common Core Requirement																	
CORE	C1 - C9	U CORE - Others	21									6	6	3	3	18	
CORE	C1 & C2	U CORE - English Language	6	3	3											6	
HBAW	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	0	6	6	3	3	27		
Term load (incl. free credits)																	
13 18 14 18 16 15 16 15 13 15 153																	