

<< Declaration of major

School:		School of Engineering and School of Business Management		Student's Pathways (i.e. Study Pattern)											
Department:		Dual Degree Program (BEng in Computer Science and BBA in General Business Management)		Pathway 1											
Program:				Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS)											
				Profile: Normative Students to graduate in (Beng & BBA) COGBM											
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

Major Requirements

Engineering Fundamental Courses

COMP		Note: COMP1021 OR COMP1022P OR COMP1022Q	3												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3	3											
COMP	1022Q	Introduction to Computing with Excel VBA	3											3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM / LIFS / PHYS		Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312	2-3												
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	2												
LIFS	1901	General Biology I	3	3										3	
PHYS	1001	Physics and the Modern Society	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	2030	Technical Communication I	3											3	
MATH		Note: (MATH1010 OR MATH1020 OR MATH1024) OR (MATH1020 OR MATH1024) OR (MATH1024) OR (MATH1020)	4-7												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2111	Matrix Algebra and Applications	3						3					3	
SENG		Engineering Introduction course (COMP students may also use COMP1022P or COMP1022Q to fulfill this requirement)	3-4		3									3	
Required credits for Engineering Fundamental Courses			18-23											21	

Major Required Courses and Electives

COMP		Note: (COMP2011 AND COMP2012) OR COMP2012H	5-8												
COMP	2011	Introduction to Object-oriented Programming	4												
COMP	2012	Object-Oriented Programming and Data Structures	4				4	4							8
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Computer Organization	4							4				4	
COMP		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												
COMP		Note: COMP3111 OR COMP3111H	4												
COMP	3111	Software Engineering	4						4					4	
COMP	3111H	Honors Software Engineering	4												
COMP	3511	Operating Systems	3							3				3	
COMP		Note: COMP3711 OR COMP3711H	3-4												
COMP	3711	Design and Analysis of Algorithms	3						3					3	
COMP	3711H	Honors Design and Analysis of Algorithms	4												
COMP		Note: Students are required to take COMP4900 for every regular term in which they are in residency at HKUST with major in COMP	0				0	0	0	0	0	0	0	0	0
COMP	4900	Academic and Professional Development	0												
COMP		Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910	6												
COMP	1991	Industrial Experience	0												
COMP	4981	Final Year Project	0									3	3	6	
COMP	4981H	Final Year Thesis	6												
COMP	4910	Co-op FYP Program	6												
ELEC	2600	Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431	3-4												
IEDA	2520	Probability and Random Processes in Engineering	4												
IEDA	2540	Probability for Engineers	3												
MATH	2411	Statistics for Engineers	3					4						4	Students should take MATH 2411 which will also be used to substitute ISOM 2500
MATH	2421	Applied Statistics	4												
MATH	2431	Probability	4												
MATH	2431	Honors Probability	4												
ENGG	2010	Engineering Seminar Series	0				0	0	0	0				0	
LANG	4030	Technical Communication II for CSE & CPEG	3									3		3	
COMP		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.)	15								3	6	3	3	15
COMP		COMP Elective (Any 1 course offered under COMP)	3											3	
Required credits for Major Requirements Courses and Electives			53-58											57	

BBA in General Business Management

School Requirements

ACCT	2010	Principles of Accounting I	3				3								3
ACCT	2200	Principles of Accounting II	3							3					3
ECON		Note: ECON 2103 OR ECON 2113	3												
ECON	2103	Principles of Microeconomics	3					3							3
ECON	2113	Microeconomics	3												
ECON		Note: ECON 2123 OR ECON 3123 (Students who wish to pursue BSc ECOF must take 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
ISOM	2500	Business Statistics	3												0
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
MGMT	2130	Business Ethics and Social Responsibility	2								2				2
SBMT	1111	Business Student Induction	0												0
LABU	2040	Business Case Analyses	3												3
LABU	2060	Effective Communication in Business	3								3				3
MATH		Note: MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023	3-4												
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
Required credits for School Requirements			43-44											34	

Major Requirements

Major Required Courses and Electives

SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29		3			3			3	6	7	7	29
Required credits for Major Required Courses and Electives			29												29

Additional Requirements

Requirements for Dual Degree Program

Required Courses

TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0
Required credits for Additional Requirements			0												0

University CORE

CORE	C3 - C12	U CORE - Others	30	6	6			3			6	6	3		30
CORE	C1 & C2	U CORE - English Language	6	3	3										6
Sub-total for University CORE			36												36

Term load (excl. free credits)

18	18	17	17	18	19	17	18	19	16
177##									

Notes:

() indicates the reuse of the same course to fulfill more than one requirement.

--- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

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