The Hong Kong University of Science and Technology
Interdisciplinary Programs Office
An Example on Student's Pathway (as of July 11, 2022)

COGBM **2021-22 Intake**
(Via DDP PBA)

School: School of Engineering and School of Business Management

Program: Dual Degree Program (BEng in Computer Science and BBA in Genearl Business Management)

Student's Pathway — << Declaration of BEng major | << Declaration of BBA major

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															
		Note: COMP1021 OR COMP1022P													Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1021	Introduction to Computer Science	3	3										3	
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312													
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LIFS	1901	General Biology I	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	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	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)										0	
		Required credits for Engineering Fundamental Courses	19-23											15	
Major Required Courses and Electives															
		Note: (COMP2011 AND COMP2012) OR COMP2012H	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	2611	Computer Organization	4						4					4	
		Note: COMP2711 OR COMP2711H													
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													
COMP	3111	Software Engineering	4					4						4	
COMP	3111H	Honors Software Engineering	4												
COMP	3511	Operating Systems	3						3					3	
		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	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	
		Note: [COMP 1991 AND (COMP 4981 OR COMP 4981H)] OR [COMP 4910]	6												
COMP	1991	Industrial Experience	0												
COMP	4981	Final Year Project	6								3	3		6	
COMP	4981H	Final Year Thesis	6												
COMP	4910	Co-op FYP Program	6												
ELEC/IEDA/MATH		Note: ELEC 2600 OR ELEC 2600H OR IEDA 2520 OR IEDA 2540 OR MATH 2411 OR MATH 2421 OR MATH 2431	3-4												Students should take MATH 2411 which will also be used to substitute ISOM 2500.
ELEC	2600	Probability and Random Processes in Engineering	4												
ELEC	2600H	Honors Probability and Random Processes in Engineering	4			4								4	
IEDA	2520	Probability for Engineers	3												
IEDA	2540	Statistics for Engineers	3												
MATH	2411	Applied Statistics	4												
MATH	2421	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 & DSCT	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 (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	6	3	3	15	
COMP		COMP 2000-level or above Elective (Any course(s) of the subject and level as specified)	3										3	3	
		Required credits for Major Requirements Courses and Electives	53-58											57	
BBA in Genearl Business 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													
ECON	2103	Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
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	Substituted by COMP 1021/ 1022P/ 2011/ 2012H
ISOM	2020	Coding for Business	1	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P
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	
SBMT	1111	Business Student Induction	0	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students
LABU	2040	Business Case Analyses	3	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students
LABU	2060	Effective Communication in Business	3						3					3	
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											32	
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					4	3	6	6	7	3	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	T&M Case Analysis and Product Innovation	3		3									3	
TEMG	4950	T&M Corporate Consulting Project	3-5					4						4	
		Required credits for Additional Requirements	7											7	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3		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)

	15	18	20	19	18	19	18	18	16	15

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<< Declaration of BEng major | << Declaration of BBA major

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):