The Hong Kong University of Science and Technology
Interdisciplinary Programs Office
An Example on Student's Pathway (as of May,2025)

CPECON 2022-23 Intake
(Via DDP PBA)

School:	School of Engineering and School of Business Management														
Program:	**Dual Degree Program (BEng in Computer Engineering and BBA in Economics)**								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 Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P / Introduction to Computer Science	3	3										3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computing with Java	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	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
MATH	2111	Matrix Algebra and Applications	3					3						3	
PHYS	1112	Note: PHYS1112 OR PHYS1312 / General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
PHYS	1114	Note: PHYS1114 OR PHYS1314 / General Physics II	3						3					3	
PHYS	1314	Honors General Physics II	3												
SENG		Engineering Introduction course (If the students take an introduction course included in their major requirement, this course can be counted towards their major requirement.)	3-4	(3)										0	
		Required credits for Engineering Fundamental Courses	25-29	9	3	0	0	6	3	0	0	0	0	21	
Major Required Courses and Electives															
CPEG	2930	Academic and Professional Development I	0			0	0							0	
CPEG	3930	Academic and Professional Development II	0					0	0					0	
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H / Programming with C++	5-8			4		4						8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Note: COMP2611 OR ELEC2350 / Computer Organization	4				4							4	
ELEC	2350	Introduction to Computer Organization and Design	4												
COMP	2711	Note: COMP2711 OR COMP2711H OR ELEC 2600 / Discrete Mathematical Tools for Computer Science	4						4					4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
ELEC	2600	Probability and Random Processes in Engineering	4												
COMP	3511	Operating Systems	3							3				3	
		Note: [CPEG 1971 AND (CPEG 4901 OR CPEG 4902 OR CPEG 4911 OR CPEG 4912)] OR [CPEG 4910] (Students taking the Research Option must take either CPEG 4902 or CPEG 4912)	6												
CPEG	1971	Industrial Experience	0			0	0	0			3	3		6	
CPEG	4901	Computer Engineering Final Year Project in COMP	6												
CPEG	4902	Computer Engineering Final Year Thesis in COMP	6												
CPEG	4911	Computer Engineering Final Year Project in ELEC	6												
CPEG	4912	Computer Engineering Final Year Thesis in ELEC	6												
CPEG	4910	Co-op Program	6												
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) / A System View of Communications: from Signals to Packets	8				4		4					8	
ELEC	2100	Signals and Systems	4												
ELEC	2400	Electronic Circuits	4												
ELEC	3300	Introduction to Embedded Systems	4							4				4	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Note: LANG4030 OR LANG4031 / Technical Communication II for CSE, CPEG & DSCT	3								3			3	
LANG	4031	Technical Communication II for ECE & CPEG	3												
		CPEG Restricted Elective (1 course from the specified elective list. The course cannot be double counted in Area Courses requirement.	3-4								3			3	
COMP	4521	Mobile Application Developement	3												
COMP	4611	Design and Analysis of Computer Architectures	3												
ELEC	4310	Embedded System Design	4												
ELEC	4320	FPGA-based Design: From Theory to Practice	3												
ELEC	4330	Mobile Embedded Systems: Hardware Platform, Software Development, and Applications	3												
COMP/ELEC		Area Courses (At least 2 courses should be taken from one single area and at least 2 courses outside that area (including course(s) in the Courses without Associated Area. Courses taken to satisfy CPEG Restricted Elective requirement may not be counted under Area Courses.)	12			3				3	3	3		12	
COMP/ELEC		COMP/ELEC 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	59-63	0	0	11	8	4	4	7	10	12	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 / Principles of Microeconomics	3		3									3	ECON 2103 / 2113 / 2123 is a major pre requisite
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR 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	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			3								3	
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	
LABU	2040	Business Case Analyses	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students
ECON	3700	Writing as an Economist	3							3				3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 / Calculus and Linear Algebra	3-4	(3)										0	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	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	3	6	3	7	3	6	2	5	0	0	35	
Major Requirements															
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 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	0	3	0	0	0	0	4	0	0	0	7	
University CORE															
CORE	C3 - C9	U CORE - Others	21	3		3	3			6			6	21	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	0	3									3	
		Sub-total for University CORE	30	6	6	3	3	0	0	6	0	0	6	30	

Term load (excl. free credits)

| | | | | 18 | 18 | 17 | 18 | 17 | 21 | 19 | 19 | 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):

>> 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.