The Hong Kong University of Science and Technology
Academy of Interdisciplinary Studies
An Example on Student's Pathway (as of August 8, 2024)

COECON 2024-25 Intake
(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		Dual Degree Program (BEng in Computer Science and BBA in Economics)				<< 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

Dept	Code	Title	Cr	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
COMP / COMP	1021 / 1022P	Note: COMP1021 OR COMP1022P; Introduction to Computer Science / Introduction to Computing with Java	3 / 3	3										3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
CHEM / CHEM / LIFS / PHYS / PHYS / PHYS	1008 / 1012 / 1901 / 1101 / 1112 / 1312	Note: CHEM1008 OR CHEM1012 OR LIFS1901 OR PHYS1101 OR PHYS1112 OR PHYS1312; Introductory Chemistry / General Chemistry B: Atomic Structure, Molecules, and Bonding Theories / General Biology I / Introductory Physics / General Physics I with Calculus / Honors General Physics I	3-4 / 3 / 3 / 3 / 4 / 3 / 3	3										3	
MATH / MATH / MATH / MATH / MATH / MATH	1012 / 1013 / 1014 / 1020 / 1023 / 1024	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]; Calculus IA / Calculus IB / Calculus II / Accelerated Calculus / Honors Calculus I / Honors Calculus II	4-7 / 4 / 3 / 3 / 4 / 3 / 3	3	3									6	
MATH / MATH / MATH	2111 / 2121 / 2131	Note: MATH 2111 OR MATH 2121 OR MATH 2131; Matrix Algebra and Applications / Linear Algebra / Honors in Linear and Abstract Algebra I	3-4 / 3 / 4 / 4			3								3	
SENG		Engineering Introduction course (COMP students may also use COMP1022P to fulfill this requirement)	3-4	(3)										0	
		Required credits for Engineering Fundamental Courses	16-22											15	

Major Required Courses and Electives

Dept	Code	Title	Cr	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
COMP / COMP / COMP	2011 / 2012 / 2012H	Note: (COMP2011 AND COMP2012) OR COMP2012H; Programming with C++ / Object-Oriented Programming and Data Structures / Honors Object-Oriented Programming and Data Structures	5-8 / 4 / 4 / 5			4	4							8	
COMP	2611	Computer Organization	4					4						4	
COMP / COMP	2711 / 2711H	Note: COMP2711 OR COMP2711H; Discrete Mathematical Tools for Computer Science / Honors Discrete Mathematical Tools for Computer Science	4 / 4			4								4	
COMP / COMP	3111 / 3111H	Note: COMP3111 OR COMP3111H; Software Engineering / Honors Software Engineering	4 / 4					4						4	
COMP	3511	Operating Systems	3						3					3	
COMP / COMP	3711 / 3711H	Note: COMP3711 OR COMP3711H; Design and Analysis of Algorithms / Honors Design and Analysis of Algorithms	3-4 / 3 / 4					3						3	
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	
COMP / COMP / COMP / COMP	1991 / 4981 / 4981H / 4910	Note: [COMP 1991 AND (COMP 4981 OR COMP 4981H)] OR [COMP 4910]; Industrial Experience / Final Year Project / Final Year Thesis / Co-op FYP Program	6 / 0 / 6 / 6 / 6								3	3		6	
ELEC/IEDA/MATH / ELEC / ELEC / IEDA / IEDA / MATH / MATH / MATH	/ 2600 / 2600H / 2520 / 2540 / 2411 / 2421 / 2431	Note: ELEC 2600 OR ELEC 2600H OR IEDA 2520 OR IEDA 2540 OR MATH 2411 OR MATH 2421 OR MATH 2431; Probability and Random Processes in Engineering / Honors Probability and Random Processes in Engineering / Probability for Engineers / Statistics for Engineers / Applied Statistics / Probability / Honors Probability	3-4 / 4 / 4 / 3 / 3 / 4 / 4 / 4			4								4	Students should take MATH 2411 which will also be used to substitute ISOM 2500.
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
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	50-55											54	

BBA in Economics
School Requirements

Dept	Code	Title	Cr	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3					3						3	
ECON / ECON	2103 / 2113	Note: ECON 2103 OR ECON 2113; Principles of Microeconomics / Microeconomics	3 / 3				3							3	ECON 2103 / 2113 / 2123 is a major pre-requisite
ECON / ECON	2123 / 3123	Note: ECON 2123 OR ECON 3123; Macroeconomics / Macroeconomic Theory I	3 / 3					3						3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/ 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	
MATH / MATH / MATH / MATH / MATH	1003 / 1012 / 1013 / 1020 / 1023	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023; Calculus and Linear Algebra / Calculus IA / Calculus IB / Accelerated Calculus / Honors Calculus I	3-4 / 3 / 4 / 3 / 4 / 3	(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
		Required credits for School Requirements	39-40											29	

Major Requirements
Major Required Courses and Electives

Dept	Code	Title	Cr	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
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											23	

Additional Requirements
Requirements for Dual Degree Program
Required Courses

Dept	Code	Title	Cr	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
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

Dept	Code	Title	Cr	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
CORE	C3 - C9	U CORE - Others	21		3		3		3	3	3	3	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	
		Sub-total for University CORE	30											30	

| | | Term load (excl. free credits) | | 16 | 17 | 18 | 17 | 18 | 14 | 16 | 15 | 13 | 14 | | |
| | | | | | | | | | 158## | | | | | | |

<< 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.