The Hong Kong University of Science and Technology
Academy of Interdisciplinary Studies
An Example on Student's Pathway (as of April 1, 2025)

CIECON 2025-26 Intake
(Via DDP PBA)

<< 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 Civil Engineering and BBA in Economics)													

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 Civil Engineering															
Engineering Fundamental Courses															
		Note: CIVL 1121 OR COMP 1022P OR COMP 1023 OR COMP2011 OR COMP 2012H	3-5												
CIVL	1121	Introduction to Computation for Civil Engineers	3			3								3	Students should take COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computing with Java	3												
COMP	1023	Introduction to Python Programming	3												
COMP	2011	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3	3										3	
		Note: [(MATH 1013 OR MATH1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-6												
MATH	1013	Calculus IB	3	3	3									6	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
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	2350	Applied Linear Algebra and Differential Equations	3				3							3	
		Note: PHYS 1112 OR PHYS 1312	3												
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	19-23	9	6	6	0	0	0	0	0	0	0	21	
Major Required Courses and Electives															
CIVL	1000	Academic and Professional Development for Civil and Environmental Engineering I	0	0	0									0	Students admitted via school-based admission are exempted from taking CIVL1000
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2000	Academic and Professional Development for Civil and Environmental Engineering II	0			0	0							0	
CIVL	2020	Industrial and BIM Training	0				0*							0	Student should attend the training modules in Year 2 Winter and Spring terms
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3000	Academic and Professional Development for Civil and Environmental Engineering III	0					0	0					0	
CIVL	3020	Internship Training	0							0^				0	
CIVL	3210	Introduction to Construction Management	3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3610	Traffic and Transportation Engineering	3						3					3	
CIVL	3730	Fundamentals of Geotechnics	3					3						3	
CIVL	3740	Geotechnical Analysis and Design	3						3					3	
CIVL	4000	Academic and Professional Development for Civil and Environmental Engineering IV	0							0	0			0	
		Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920)	6									2	4	6	
CIVL	4910	Civil and Environmental Engineering Final Year Project	6												
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6												
CIVL	4950	Civil Engineering Capstone Design Project	3							3				3	
CIVL/SENG		CIVL Electives (3 courses from the specified elective list)	9							3	3	3		9	
		BEng in Civil Engineering Major Requirements	63	0	3	6	12	12	12	6	3	5	4	63	
BBA in Economics															
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	3												
ECON	2103	Principles of Microeconomics	3			3								3	ECON 2103 / 2113 / 2123 is a major pre-requisite
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR 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	COMP 1023, COMP 1022P, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 or COMP2011 or COMP2012H 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 or COMP 1029P or COMP2011 or COMP2012H. These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by CIVL 2160
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	
		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												
MATH	1003	Calculus and Linear Algebra	3	(3)										0	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 IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	39-40	3	3	3	6	3	0	4	2	3	2	29	
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 Requirement for Dual Degree															
Requirements for Dual Degree Program															
TEMG	1011	T&M Professional Activities I	0	0	0									0	
TEMG	1012	T&M Professional Activities II	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	To graduate, students should complete ALL requirements as specified for DDP.
TEMG	1015	T&M Professional Activities V	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 Common Core Requirement															
CORE	C3 - C9	U CORE - Others	21			3					6	6	6	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	4	5	3	0	0	0	0	6	6	6	30	

Term load (excl. free credits)

				16	20	18	18	19	16	18	15	18	15	**173**
								173##							

Notes:
( ) indicates the reuse of the same course to fulfill more than one requirement.
* Courses offered in winter term
^ Courses offered in summer term
--- 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.