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

CVECON 2021-22 Intake
(Via DDP PBA)

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

									Student's Pathway						

School: School of Engineering and School of Business Management

Program: Dual Degree Program (BEng in Civil and Environmental 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 and Environmental Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5												
COMP	1021	Introduction to Computer Science	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			3									
COMP	2011	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM 1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	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												
MATH	1014	Calculus II	3	3	3									6	
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													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3			3								3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	
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	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
		Note: CIVL3210 OR CIVL3610	3												
CIVL	3210	Introduction to Construction Management							3					3	
CIVL	3610	Traffic and Transportation Engineering	3												
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3420	Water and Wastewater Engineering	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
		Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920)													
CIVL	4910	Civil and Environmental Engineering Final Year Project / Civil and Environmental Engineering Final Year Thesis	6 / 6									3	3	6	
CIVL	4950	Civil Engineering Capstone Design Project	3									3		3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4033	Technical Communication II for Civil and Environmental Engineering	3									3		3	
		Note: CIVL4450 OR CIVL 5450 OR CIVL5460													
CIVL	4450	Carbon Footprint Analysis and Reduction	3								3			3	
CIVL	5450	Hazardous Waste Treatment and Site Remediation	3												
CIVL	5460	Landfill Engineering and Design	3												
CIVL/SENG		CIVL (Environmental) Electives [2 courses from the specified elective list. At least 1 course (3 credits) should be selected from the "Restricted Electives"] Restricted electives: at least 1 course AND (CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted Electives" from the list OR SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL)	6									3	3	6	
		Required credits for Major Requirements Courses and Electives	66											66	
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													
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													
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 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	
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															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0								0			0	
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															
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		6					9	6	3	6	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	20	19	19	18	19	15		
								185##							

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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.