The Hong Kong University of Science and Technology
Interdisciplinary Programs Office
An Example on Student's Pathway (as of May 2, 2023)

CVECON   **2022-23 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 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

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
COMP COMP COMP COMP	1021 1022P 2011 2012H	Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H / Introduction to Computer Science / Introduction to Computing with Java / Programming with C++ / Honors Object-Oriented Programming and Data Structures	3-5 3 3 4 5		3									3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3	3										3	
LANG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students
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	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2350	Applied Linear Algebra and Differential Equations	3				3							3	
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 / General Physics I with Calculus / Honors General Physics I	3 3	3										3	
		Required credits for Engineering Fundamental Courses	22-27											21	

Major Required Courses and Electives

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
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	
CIVL CIVL	3210 3610	Note: CIVL3210 OR CIVL3610 / Introduction to Construction Management / Traffic and Transportation Engineering	3 3						3					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	
CIVL CIVL	4910 4920	Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920) / 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	
CIVL CIVL CIVL	4450 5450 5460	Note: CIVL4450 OR CIVL 5450 OR CIVL5460 / Carbon Footprint Analysis and Reduction / Hazardous Waste Treatment and Site Remediation / Landfill Engineering and Design	3 3 3								3			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

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	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 1021/1022P/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	
LABU	2040	Business Case Analyses	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students
ECON	3700	Writing as an Economist	3								3			3	
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	43-44											32	

Major Requirements

Major Required Courses and Electives

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	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	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	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	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
CORE	C3 - C9	U CORE - Others	21		3					9	3		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											30	

| | | Term load (excl. free credits) | | 15 | 18 | 20 | 19 | 20 | 19 | 19 | 18 | 16 | 15 | | |
| | | | | | | | | | **179##** | | | | | | |

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

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.