(For students admitted in 2010-11 under the 3-year degree)

Curriculum for BEng in Civil and Structural Engineering and BBA in General Business Management

General Requirements

Students are required to complete the following general requirements for graduation in addition to program specific requirements:

Required Courses in English Communication
Common Core Requirements
Required Course in Physical Education

For details please refer to the section "General Requirements" on this website.

Program Specific Requirements

			Credit(s)
Required courses			
	CIVL 1010	Academic and Professional Development I	0
	CIVL 1020	Surveying and Surveying Camp	2
	CIVL 1030	Civil Engineering Drawing	1
	CIVL 1110	History and Practice of Civil Engineering	1
	CIVL 2010	Academic and Professional Development II	0
(2)	CIVL 2020	Industrial Training	0
	CIVL 2110	Statics	3
	CIVL 2120	Mechanics of Materials	3
	CIVL 2160	Modeling Systems with Uncertainties	3
	CIVL 2410	Environmental Engineering and Management**	3
	CIVL 2420	Water and Wastewater Engineering	3
	CIVL 2510	Fluid Mechanics	3
	CIVL 2810	Construction Materials	3
	CIVL 3010	Academic and Professional Development III	0
(1)	CIVL 3020	Internship Training	0
	CIVL 3220	Construction Engineering I	2
	CIVL 3310	Structural Analysis	3
	CIVL 3320	Reinforced Concrete Design	3
	CIVL 3520	Hydraulics	3
	CIVL 3530	Hydrology	3
	CIVL 3610	Traffic and Transportation Engineering	3
	CIVL 3700	Geology for Civil Engineers	3
	CIVL 3720	Soil Mechanics	3
	CIVL 4230	Construction Engineering II	2
	CIVL 4320	Structural Steel Design	3
	CIVL 4720	Geotechnical Analysis and Design	3
	CIVL 4950	Integrated Civil Engineering Design Project**	2**

		CIVL 4990	Civil Engineering Project	6
		COMP 1002	Computer and Programming Fundamentals I	3
		IELM 3020	Introduction to Operations Research	2
		IELM 4110	Engineers in Society	1
		ACCT 2010	Principles of Accounting I	3
(3)		ECON 2103	Principles of Microeconomics	3
(3)	or	ECON 2113	Microeconomics	3
(3)	or	ECON 2913	Honors Microeconomics	3
		FINA 2303	Financial Management	3
		ISOM 2700	Operations Management	3
		MARK 2120	Marketing Management	3
		MGMT 2110	Organizational Behavior	3
		MGMT 2120	Business, Society and the Individual	1
(4)		LANG 1112	Chinese Business Communication I	3
(5)		MATH 1018	Concise Calculus	4
		MATH 2011	Introduction to Multivariable Calculus	3
		MATH 2350	Applied Linear Algebra and Differential Equations	4
		MATH 3311	Introduction to Numerical Methods	2

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(6)	ENGG	Engineering Elective	3	9
(7)	SB&M	Business and Management Elective	9	29

Other Requirements

TEMG 1010	Technology and Management Professional Activities	0

***Remarks on course(s):*

- CIVL 2410: The course title will be changed to "Environmental Assessment and Management" starting from Spring, 2013-14.
- CIVL 4950: The course title will be changed to "Civil Engineering Capstone Design Project" subject to approval.
- CIVL 4950: The credit value will be changed to 4 subject to approval.

Notes:

(1) Students are required to complete and pass the internship training in the Summer of their third year of study.

(2) Students are required to complete and pass a prescribed training program within the normal length of study. Details of the program, its requirements and schedule will be announced on the website of the Industrial Training Center (http://www.ust.hk/itc) or website of the department in the first year Fall term. Training normally takes place in the Winter and Summer terms starting from the first year of study.

(3) Students entering with AL Economics take ECON 2113; however, those with grade B or above in HKAL Economics will take ECON 2913. All other students without AL Economics background, including those entering with AL Business and Economics, take ECON 2103.

(4) Students cannot replace this course by LANG 1110 (prior to 2012-13)/1111 (prior to 2011-12) for graduation purposes. Students recruited from Mainland China will replace this course by a free elective. For international students who are assessed as having inadequate Chinese background to take LANG 1112, they will replace this course by LANG 1120.

(5) Students who have grade E or better in AL Pure Mathematics or in AL Applied Mathematics are not required to take MATH 1018.

(6) Students may take any 4000-level or above courses (for courses taken in 2011-12 and after), or any 300-level or above courses (for courses taken prior to 2011-12) offered by the Civil and Environmental Engineering Department; or any 3000-level or above courses (for courses taken in 2011-12 and after), or any 200-level or above courses (for courses taken prior to 2011-12) offered by other engineering departments. ENGG 4950 can be used to count toward the ENGG elective requirement.

(7) ISOM 2010 and ISOM 2500 cannot be used to count toward the SBM elective requirement. Of these 29 credits, at least 9 credits must be at 4000-level or above taken in 2011-12 and after, or at 300-level or above taken prior to 2011-12; at least 9 credits must be at 3000-level or above taken in 2011-12 and after, or at 200-level or above taken prior to 2011-12; and at least 12 credits (3 courses) of business elective courses must be offered by HKUST School of Business and Management.

A minimum of 153 credits is required for the BEng program in Civil and Structural Engineering and BBA program in General Business Management. For students who are required to take MATH 1018, the minimum total required is 157 credits.