(For students admitted in 2011-12 under the 3-year degree)

Curriculum for BEng in Civil and Environmental Engineering

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 Assessment 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 4460	Process Design of Environmental Engineering Facilities	3
	CIVL 4470	Air Quality Control and Management	3
	CIVL 4950	Integrated Civil Engineering Design Project	2
	CIVL 4990	Civil Engineering Project	6
	COMP 1022Q	Introduction to Computing with Excel VBA	3

	IELM 3020	Introduction to Operations Research	2
	IELM 4110	Engineers in Society	1
	MATH 2011	Introduction to Multivariable Calculus	3
(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
(4)	ENGG	Engineering Elective	3	8
	SB&M	Business and Management Elective	1	2

Notes:

(1) Students are required to complete and pass the internship training in the summer of their second 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 admitted through the School-based Admission Scheme are not required to take MATH 2350. They should take MATH 2111 and MATH 2351 in their first term.

(4) At least two engineering elective courses (6 credits) should be selected from CIVL 4430, CIVL 4480 (prior to 2009-10), CIVL 4520, CIVL 5410, CIVL 5420, CIVL 5430, CIVL 5450, CIVL 5460, CIVL 5470, CIVL 5480, CENG 4710, CENG 4720. For the remaining credits, students may take any 4000-level or above courses offered by the Civil and Environmental Engineering Department or any 3000-level or above courses offered by other engineering departments. ENGG 4950 can be used to count toward the ENGG elective requirement.

A minimum of 104 credits is required for the BEng program in Civil and Environmental Engineering.