

(For students admitted in 2012-13 under the 3-year degree)

Curriculum for BEng in Mechanical 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

(1)	MECH 1990	Industrial Training	0
	MECH 2030	Mechanisms and Dynamics of Machinery	3
	MECH 2310	Thermodynamics	3
	MECH 2410	Engineering Materials I	3
	MECH 2521	Design and Manufacturing I	4
	MECH 3010	Solid Mechanics I	3
	MECH 3020	Solid Mechanics II	3
	MECH 3210	Fluid Mechanics	3
	MECH 3310	Heat Transfer	3
	MECH 3420	Engineering Materials II	3
	MECH 3520	Design and Manufacturing II	4**
	MECH 3610	Control Principles	4**
	MECH 3630	Electrical Technology	3
	MECH 3830	Laboratory I**	3**
	MECH 3840	Laboratory II	3
	MECH 4910	Final Year Design Project	9
	COMP 1022Q	Introduction to Computing with Excel VBA	3
	ELEC 2410	Basic Electronics	4
	IELM 4110	Engineers in Society	1
	ACCT 3650	Engineering Law	2
	ECON 2152	Engineering Economics and Finance	2
	MATH 2011	Introduction to Multivariable Calculus	3
	MATH 2111	Matrix Algebra and Applications	3
	MATH 2351	Introduction to Differential Equations	3
	<i>For non-School-based admitted students:</i>		
	MGMT 1110	Introduction to Management	3

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(2)	MECH	Mechanical Engineering Elective	4	12

Other Requirements

MECH 1020	Academic and Professional Development I	0
MECH 1030	Academic and Professional Development II	0

****Remarks on course(s):**

- MECH 3520: The credit value will be changed to 3 starting from Fall, 2014-15.
- MECH 3610: The credit value will be changed to 3 starting from Spring, 2014-15.
- MECH 3830: The course title will be changed to "Laboratory" starting from Spring, 2014-15.
- MECH 3830: The credit value will be changed to 4 starting from Spring, 2014-15.

Notes:

- (1) 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. For recording the overall training results, students are normally registered for the course in their last term of study.
- (2) All MECH courses at 3000- and 4000-level except ENGG 3000, MECH 3820 and MECH 4800 can be counted as MECH elective. Besides, ENGG 4950 can be used to count toward the MECH elective requirement.

A minimum of 105 credits is required for the BEng program in Mechanical Engineering. For students admitted through the School-based Admission Scheme - Engineering A, a minimum of 104 credits is required for their program completion.