

**Curriculum for BEng in Mechanical Engineering and BBA in General Business Management (MEGBM)**

**Major Program Requirements**

Core courses

	MECH 101	Solid Mechanics I	[3-1-0:3]
	MECH 103	Mechanisms and Dynamics of Machinery	[3-1-0:3]
	MECH 131	Thermodynamics	[3-1-0:3]
	MECH 141	Engineering Materials I	[3-1-1:3]
	MECH 152	Design and Manufacturing I	[3-1-2:4]
	MECH 221	Fluid Mechanics	[3-1-0:3]
	MECH 283	Laboratory I	[2-1-2:3]
	MECH 284	Laboratory II	[1-0-6:3]
	MECH 398	Final Year Design Project I	[0-1-17:6]
	MECH 399	Final Year Design Project II	[0-1-17:6]
	ACCT 101	Introduction to Accounting for Business Majors	[4-0-0:4]
(1) [	ECON 110	Introductory Microeconomics	[3-1-0:4]
	or ECON 111	Microeconomics	[3-1-0:4]
	or ECON 191	Honors Microeconomics	[3-1-0:4]
	ELEC 101	Basic Electronics	[3-1-3:4]
	FINA 111	Financial Management	[3-1-0:3]
	IELM 311	Engineers in Society	[1-0-0:1]
	ISOM 111	Business Statistics	[3-1-0:4]
	ISOM 161	Operations Management	[3-0-0:3]
	MARK 112	Marketing Management	[3-0-0:3]
(2)	MATH 021	Concise Calculus	[3-1-0:4]
	MGTO 121	Organizational Behavior	[3-1-0:3]

Required courses

(3)	MECH 099	Industrial Training	[0 credit]
	MECH 202	Solid Mechanics II	[3-1-0:3]
	MECH 231	Heat Transfer	[3-1-0:3]
	MECH 242	Engineering Materials II	[3-1-0:3]
	MECH 252	Design and Manufacturing II	[3-1-2:4]
	MECH 261	Control Principles	[3-1-2:4]
	MECH 263	Electrical Technology	[3-1-1:3]
	ACCT 265	Engineering Law	[2-0-0:2]
	COMP 102	Computer and Programming Fundamentals I	[3-0-2:3]
	ECON 115	Engineering Economics and Finance	[2-1-0:2]
(4)	LANG 111	Chinese Business Communication I	[0-3-0:3]
	MATH 100	Introduction to Multivariable Calculus	[2-1-0:2]
	MATH 113	Introduction to Linear Algebra	[2-1-0:2]
	MATH 150	Introduction to Ordinary Differential Equations	[2-1-0:2]
	MGTO 222	Business, Society and the Individual	[1-0-0:1]

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(5)	MECH	Mechanical Engineering Elective	4	12
(6)	SB&M	Business and Management Elective	4	16

**General Education Requirements**

Electives must be selected from amongst those general education courses that are listed under the section “Designated General Education Courses for Undergraduate Students”.

	Elective types		Minimum no. of courses	Minimum total credits
	GEE(SCIE)	Science General Education Elective	1	3
(7)	GEE(H&SS)	Humanities and Social Science General Education Elective	4	12

**Required Courses in English Communication**

LABU	101	Business Case Analyses	[0-3-0:4]
LANG	201	Business Communication	[0-3-0:3]
LANG	307	Communication for International Management	[0-2-0:2]

**Other Requirements**

	MECH	002	Academic and Professional Development I	[0-1-0:0]
	MECH	003	Academic and Professional Development II	[0-1-0:0]
(8)	HLTH	001	Healthy Life Style	[0 credit]
	TEMG	001	Technology and Management Professional Activities	[0 credit]

Notes:

- (1) Students entering with AL Economics take ECON 111; however, those with grade B or above in HKAL Economics will take ECON 191. All other students without AL Economics background, including those entering with AL Business and Economics, take ECON 110.
- (2) Students who have grade E or better in AL Pure Mathematics or in AL Applied Mathematics are not required to take MATH 021.
- (3) 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 Semester. Training normally takes place in the Winter and Summer Sessions starting from the first year of study. For recording the overall training results, students are normally registered for the course in their last semester of study.
- (4) Students cannot replace this course by LANG 014/015 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 111, they will replace this course by LANG 113.
- (5) ENGG 351 and ENGG 395 can be used to count toward the MECH elective requirement.
- (6) ISOM 101 and MGTO 120 cannot be used to count toward the SB&M elective requirement. Of these 16 credits, at least 6 credits must be at 300-level or above and at least 6 credits must be at 200-level or above.
- (7) Of these courses, at least one course in Humanities and one in Social Science are required. SOSC 111 is a recommended elective.

(8) Students are required to take and pass this course in their first year of study. Details of the course and its requirements are announced on the course website <http://www.ab.ust.hk/sao/HLTH001> managed by the Student Affairs Office.

A minimum of 155 credits is required for the BEng program in Mechanical Engineering and BBA program in General Business Management. For students who are required to take MATH 021, the minimum total required is 159 credits.

**Recommended Pattern of Study for BEng in Mechanical Engineering and BBA in General Business Management**

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1st year	Fall	C MATH 021 <sup>^</sup> , ISOM 111, MGTO 121 R MECH 002, COMP 102, HLTH 001, LABU 101, TEMG 001 E GEE(H&SS), GEE(SCIE)	(Total: 16 / 20 <sup>^</sup> credits)
	Spring	C MECH 101, MECH 131, MECH 152, ECON 110/111/191 R HLTH 001, LABU 101, MATH 150, TEMG 001	(Total: 20* credits)
2nd year	Fall	C MECH 103, MECH 141, MECH 283, ACCT 101 R MECH 202, MATH 100, MGTO 222, TEMG 001	(Total: 19 credits)
	Spring	C MECH 284, ELEC 101, FINA 111, ISOM 161, MARK 112 R MECH 003, MATH 113, LANG 201, TEMG 001	(Total: 21 credits)
3rd year	Fall	C MECH 221 R MECH 242, MECH 252, MECH 263, LANG 111/LANG 113/FREE, TEMG 001 E SB&M	(Total: 20 credits)
	Spring	R MECH 231, MECH 261, ECON 115, TEMG 001 E MECH, GEE(H&SS), SB&M	(Total: 19 credits)
4th year	Fall	C MECH 398, IELM 311 R ACCT 265, TEMG 001 E MECH, GEE(H&SS), SB&M	(Total: 19 credits)
	Spring	C MECH 399 R MECH 099, LANG 307, TEMG 001 E two MECH, GEE(H&SS), SB&M	(Total: 21 credits)

<sup>^</sup> Students who have grade E or better in AL Pure Mathematics or in AL Applied Mathematics are not required to take MATH 021.

\* LABU 101 is a two-semester course. The course credits will be earned on completion of the course at the end of the 1st year Spring.

C = core course; R = required course; E = elective course

