

Curriculum for BEng in Logistics Management and Engineering

Two program sequences, namely Sequence A and Sequence B, are designed to take care of students admitted with varying mathematics background. Sequence A is intended for students with AL Mathematics background, while Sequence B is for those without an AL Mathematics background who are required to undertake additional mathematics course(s).

Major Program Requirements

Core courses

IELM	151	Engineering Probability and Statistics	[3-1-0:4]
IELM	141	Logistics and Freight Transportation Operations	[3-1-1:3]
IELM	201	Operations Research I	[3-1-0:3]
IELM	311	Engineers in Society	[1-0-0:1]

Required courses

(1)	IELM	099	Industrial Training	[0 credit]
	IELM	115	Product Design and Communication	[2-0-3:3]
	IELM	120	Engineering Management	[3-1-0:3]
	IELM	213	Ergonomics in Work Place Design	[2-0-3:3]
	IELM	223	Engineering Economy	[3-0-0:3]
	IELM	225	Operations Research II	[3-1-0:3]
	IELM	227	Quality Engineering	[3-1-1:3]
	IELM	230	Industrial Data Systems	[2-0-3:3]
	IELM	241	Routing and Fleet Management	[3-1-0:3]
	IELM	245	Logistics Planning and Service Management	[3-0-0:3]
	IELM	310	Integrated Production Systems	[3-1-0:3]
	IELM	313	System Simulation	[3-2-0:3]
	IELM	320	Facilities Layout and Material Handling	[3-0-1:3]
	IELM	341	Global Supply Chain Management	[3-0-0:3]
	IELM	365	Cognitive Engineering and Human Performances	[2-0-3:3]
	IELM	391	Logistics Management and Engineering Project I	[0-0-9:3]
	IELM	392	Logistics Management and Engineering Project II	[0-0-9:3]
	CIVL	262	Introduction to Transportation Systems	[3-1-0:3]
	COMP	102	Computer and Programming Fundamentals I	[3-0-2:3]
	COMP	103	Computer and Programming Fundamentals II	[2-0-1:2]
	MATH	113	Introduction to Linear Algebra	[2-1-0:2]

For Sequence A:

MATH	100	Introduction to Multivariable Calculus	[2-1-0:2]
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For Sequence B:

MATH	021	Concise Calculus	[3-1-0:4]
MATH	101	Multivariable Calculus	[3-1-0:4]

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(2)	ENGG	Engineering Elective		
		For Sequence A	4	12
		For Sequence B	3	9
(3)	SB&M	Business and Management Elective	2	4

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
(4)	GEE(SCIE) or GEE(SB&M) or GEE(H&SS)	Science General Education Elective Business and Management General Education Elective Humanities and Social Science General Education Elective	-	12

Required Courses in English Communication

(5)	LANG 106	English for Engineering Students I	[0-2-0:1]
	LANG 206	English for Engineering Students II	[0-2-0:1]
	LANG 306	English for Engineering Students III	[0-2-0:1]

Other Requirements

	IELM 001	Academic and Professional Development I	[0 credit]
	IELM 002	Academic and Professional Development II	[0 credit]
(6)	HLTH 001	Healthy Life Style	[0 credit]

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 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.
- (2) CIVL 362, COMP 151, COMP 171, ELEC 101 and ELEC 151 are recommended Engineering electives. ENGG 351 and ENGG 395 can be used to count toward the ENGG elective requirement.
- (3) ACCT 102, ECON 112, FINA 110, MARK 112 and MGTO 120 are recommended SB&M electives.
- (4) Of these courses, at least one course in Humanities and one in Social Science are required. SOSC 111 is a recommended elective.
- (5) The course can also be replaced by LANG 101.
- (6) 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 102 credits is required for the BEng program in Logistics Management and Engineering Sequence A; and a minimum of 105 credits is required for Sequence B.

Recommended Pattern of Study for BEng in Logistics Management and Engineering - Sequence A

1st year	Fall	R IELM 001, IELM 115, IELM 120, COMP 102, HLTH 001, LANG 106, MATH 100 E ENGG, GEE(SOSC)	(Total: 17 credits)
	Spring	C IELM 141, IELM 151 R IELM 001, COMP 103, HLTH 001, LANG 106, MATH 113 E SB&M, GEE(HUMA)	(Total: 17* credits)
2nd year	Fall	C IELM 201 R IELM 002, IELM 213, IELM 230, IELM 245, LANG 206 E two ENGG	(Total: 18 credits)
	Spring	R IELM 002, IELM 223, IELM 225, IELM 227, IELM 310, IELM 313, CIVL 262, LANG 206	(Total: 19* credits)
3rd year	Fall	C IELM 311 R IELM 241, IELM 320, IELM 341, IELM 391, LANG 306 E ENGG	(Total: 16 credits)
	Spring	R IELM 099, IELM 365, IELM 392, LANG 306 E two GEE(SCIE/SB&M/H&SS), SB&M	(Total: 15* credits)

* LANG 106, LANG 206 and LANG 306 are two-semester courses. The course credit (1 credit) will be earned on completion of the courses at the end of the respective Spring Semester.

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

Recommended Pattern of Study for BEng in Logistics Management and Engineering - Sequence B

1st year	Fall	R IELM 001, IELM 115, IELM 120, COMP 102, HLTH 001, LANG 106, MATH 021 E GEE(SOSC)	(Total: 16 credits)
	Spring	C IELM 141, IELM 151 R IELM 001, COMP 103, HLTH 001, LANG 106, MATH 101, MATH 113 E GEE(HUMA)	(Total: 19* credits)
2nd year	Fall	C IELM 201 R IELM 002, IELM 213, IELM 230, IELM 245, LANG 206 E two ENGG	(Total: 18 credits)
	Spring	R IELM 002, IELM 223, IELM 225, IELM 227, IELM 310, IELM 313, CIVL 262, LANG 206	(Total: 19* credits)

3rd year	Fall	C IELM 311	
		R IELM 241, IELM 320, IELM 341, IELM 391, LANG 306	
		E ENGG	(Total: 16 credits)
	Spring	R IELM 099, IELM 365, IELM 392, LANG 306	
		E two SB&M, two GEE(SCIE/SB&M/H&SS)	(Total: 17* credits)

* LANG 106, LANG 206 and LANG 306 are two-semester courses. The course credit (1 credit) will be earned on completion of the courses at the end of the respective Spring Semester.

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