(For students admitted in 2012-13 under the 4-year degree)

BEng in Logistics Management and Engineering

In addition to the requirements of their major programs, students are required to complete the University requirements for graduation. For details please refer to the respective section on this website.

Some courses can be used to fulfill both Major and University Common Core Requirements. Students may reuse a maximum of 6 credits of these courses to count towards both Requirements.

Major Requirements

			Credit(s)
Engineering Fundamental Course(s)			
COMP		Note: COMP 1021 OR COMP 1022P OR COMP 1022Q	3
COMP	1021	Introduction to Computer Science	3
COMP	1022P	Introduction to Computing with Java	3
COMP	1022Q	Introduction to Computing with Excel VBA	3
ENGG	1010	Academic Orientation	0
CHEM/PHYS		Note: CHEM 1010 OR CHEM 1020 OR PHYS 1114 OR PHYS 1154 OR PHYS 1314	2-3
CHEM	1010	General Chemistry IA	3
CHEM	1020	General Chemistry IB	2
PHYS	1114	General Physics II	3
PHYS	1154	Accelerated General Physics II	2
PHYS	1314	Honors General Physics II	3
LANG	2030	Technical Communication I	3
MATH		Note: [(MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-6
MATH	1013	Calculus I	3
MATH	1014	Calculus II	3
MATH	1020	Accelerated Calculus	4
MATH	1023	Honors Calculus I	3
MATH	1024	Honors Calculus II	3
MATH	2011	Introduction to Multivariable Calculus	3
MATH	2111	Matrix Algebra and Applications	3
PHYS		Note: PHYS 1112 OR PHYS 1152 OR PHYS 1312	2-3
PHYS	1112	General Physics I with Calculus	3
PHYS	1152	Accelerated General Physics I with Calculus	2
PHYS	1312	Honors General Physics I	3

SENG		Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.)	3-4
IELM	2010	Industrial Engineering and Modern Logistics	3
IELM	2200	Engineering Management	3
CENG	1000	Introduction to Chemical and Biomolecular Engineering	3
CIVL	1100	Discovering Civil and Environmental Engineering	3
COMP	1021	Introduction to Computer Science	3
ELEC	1100	Introduction to Electro-Robot Design	4
ELEC	1200	A System View of Communications: from Signals to Packets	4
MECH	1901	Automotive Engineering	3
MECH	1902	Energy Systems in a Sustainable World	3

Required Course(s)

IELM	1010	Academic and Professional Development I	0
IELM	1020	Academic and Professional Development II	0
IELM	1990	Industrial Training	0
IELM		Note: IELM 2010 OR IELM 2200	3
IELM	2010	Industrial Engineering and Modern Logistics	3
IELM	2200	Engineering Management	3
IELM	2410	Logistics and Freight Transportation Operations	3
IELM	2510	Engineering Probability and Statistics	4
IELM	3010	Operations Research I	3
IELM	3230	Engineering Economy	3
IELM	3250	Operations Research II	3
IELM	3300	Industrial Data Systems	3
IELM	3410	Routing and Fleet Management	3
IELM	3450	Logistics Planning and Service Management	3
IELM	3901	Transportation Systems	3
IELM	4100	Integrated Production Systems	3
IELM	4130	System Simulation	3
IELM	4410	Global Supply Chain Management	3
IELM		Note: IELM 4901 OR IELM 4930	6
IELM	4901	Final Year Thesis	6
IELM	4930	Logistics Management and Engineering Project	6
LANG	4032	Technical Communication II for Industrial Engineering and Logistics Management	3

Elective(s)

IELM/ACCT		IELM Intermediate / Advanced Electives (3 courses from the specified elective list)	9
IELM	2150	Product Design and Communication	3
IELM	3130	Ergonomics and Safety Management	3
IELM	3270	Quality Engineering	3
IELM	3310	IT for Logistics and Manufacturing	3
IELM	4180	Service Engineering and Management	3
IELM	4200	Facilities Layout and Material Handling**	3
ACCT	2020	Introduction to Accounting for Non-Business Majors	3

Student may opt to graduate with or without an option. Students who take an option MUST complete all requirements specified in addition to the major requirements.

Option(s)

Research Option

Students in the Research Option should also take IELM 4901 as specified in the major requirements.

Elective Course(s)

IELM		IELM Advanced Electives (2 courses from the specifed elective list. Students should seek approval of their advisor for the choices of courses.)	6
IELM	4900	Independent Study in Industrial Engineering and Logistics Management	3
IELM	5170	Advanced Production Planning and Control	3
IELM	5230	Deterministic Models in Operations Research	3
IELM	5260	Design and Analysis of Engineering Experiments	3

***Remarks on course(s):*

- IELM 4200: The course title will be changed to "Design of Logistics and Manufacturing Systems" starting from Fall, 2014-15.