

The Hong Kong University of Science and Technology  
Interdisciplinary Programs Office  
An Example on Student's Pathway (As of Summer 2018-19)

IEGBM 2016-17 Intake

<< Declaration of major

School:		School of Engineering and School of Business Management			Student's Pathways (i.e. Study Pattern)											
Department:		Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in General Business Management)			Pathway 1											
Program:					Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS) Profile: Normative Students to graduate in (Beng & BBA) IEGBM											
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks	
<b>BEng in Industrial Engineering and Engineering Management</b>																
<b>Major Requirements</b>																
<b>Engineering Fundamental Courses</b>																
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 1022Q OR COMP 2011	3-4													
COMP	1022P	Introduction to Computer Science	3			3								3	This course will also be used to substitute ISOM 2010 (Except COMP2011)	
COMP	1022Q	Introduction to Computing with Java	3													
COMP	2011	Introduction to Computing with Excel VBA	4													
ENG	1010	Academic Orientation	0	0	0									0		
CHEM/PHYS	1010	Note: CHEM 1010 OR CHEM 1020 OR PHYS 1114 OR PHYS 1154 OR PHYS 1314	2-3													
CHEM	1020	General Chemistry IA	3	3										3		
CHEM	1114	General Chemistry IB	2													
PHYS	1314	General Physics II	3													
PHYS	1314	Honors General Physics II	3													
LANG	2030	Technical Communication I	3					3						3		
MATH	1012	Note: [(MATH1012 OR MATH1013 OR MATH1023) AND (MATH1014 OR MATH1024)] OR (MATH1020)	4-6													
MATH	1013	Calculus IA	4	3	3									6		
MATH	1014	Calculus IB	3													
MATH	1020	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				3							3		
MATH	2111	Matrix Algebra and Applications	3			3								3		
PHYS	1112	Note: PHYS 1112 OR PHYS 1312	3													
PHYS	1312	General Physics I with Calculus	3	3										3		
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		3									3		
Required credits for Engineering Fundamental Courses			24-29											27		
<b>Major Required Courses and Electives</b>																
IEDA	1010	Academic and Professional Development I	0			0	0							0		
IEDA	1020	Academic and Professional Development II	0					0	0					0		
IEDA	1990	Note: IEDA 1990 OR IEDA 1991	0			0*	0*							0		
IEDA	1991	Industrial Training	0													
IEDA	2010	Note: IEDA 2010 OR IEDA 2200	3													
IEDA	2200	Industrial Engineering and Decision Analytics	3			3								3		
IEDA	2100	Engineering Management	3													
IEDA	2100	Computing in Industrial Applications	3				3							3		
IEDA	2150	Product Design and Communication	3							3				3		
IEDA	2410	Logistics and Freight Transportation Operations	3					3						3		
IEDA	2510	Engineering Probability and Statistics	4				4							4	This course will also be used to substitute ISOM 2500	
IEDA	3010**	Prescriptive Analytics**	3					3						3		
IEDA	3130	Ergonomics and Safety Management	3					3						3		
IEDA	3230	Engineering Economics and Accounting	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by ECON 2103/2113	
IEDA	3270	Quality Engineering	3							3				3		
IEDA	3300	Industrial Data Systems	3				3							3		
IEDA	4100	Integrated Production Systems	3								3			3	This course will also be used to substitute ISOM 2700	
IEDA	4130	System Simulation	3								3			3		
IEDA	4200	Design of Logistics and Manufacturing Systems	3							3				3		
IEDA	4901	Note: IEDA4901 OR IEDA4990	6													
IEDA	4990	(Students taking Research Option must take IEDA4901)	6													
IEDA	4990	Final Year Thesis	6										3	3	6	
IEDA	4990	Industrial Engineering Design Project	6													
ENG	2010	Engineering Seminar Series	0			0	0	0	0					0		
LANG	4032	Technical Communication II for Industrial Engineering and Logistics Management	3										3		3	
IEDA/CENG/ELEC		IEEM Electives (3 courses from the specified elective list)	9									3	6	9		
Required credits for Major Requirements Courses and Electives			58											55		
<b>BBA in General Business Management</b>																
<b>School Requirements</b>																
ACCT	2010	Principles of Accounting I	3			3								3		
ACCT	2200	Principles of Accounting II	3							3				3		
ECON	2103	Note: ECON 2103 OR ECON 2113	3			3								3	This course will also be used to substitute IEDA 3230	
ECON	2113	Principles of Microeconomics	3													
ECON	2113	Microeconomics	3													
ECON	2123	Note: ECON 2123 OR ECON 3123 (Students who wish to pursue BSc ECOF must take ECON 3123)	3					3						3		
ECON	3123	Macroeconomics	3													
ECON	3123	Macroeconomic Theory I	3													
FINA	2303	Financial Management	3							3				3		
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 2510	
ISOM	2700	Operations Management	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 4100	
MARK	2120	Marketing Management	3					3						3		
MGMT	2010**	Business Ethics and the Individual	2								2			2		
MGMT	2110	Organizational Behavior	3							3				3		
MGMT	2130	Business Ethics and Social Responsibility	2									2		2		
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students	
LABU	2060**	Effective Communication in Business**	3											3		
LABU	2040**	Business Case Analyses**	3				3							3		
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4													
MATH	1012	Calculus and Linear Algebra	3	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees	
MATH	1013	Calculus IA	4													
MATH	1020	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
Required credits for School Requirements			43-44											31		
<b>Major Requirements</b>																
<b>Major Required Courses and Electives</b>																
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29			3					9	3	7	7	29	
Required credits for Major Required Courses and Electives			29												29	
<b>Additional Requirements</b>																
<b>Requirements for Dual Degree Program</b>																
<b>Required Courses</b>																
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0	
Required credits for Additional Requirements			0												0	
<b>University CORE</b>																
CORE	C3 - C12	U CORE - Others	30	6	6					9	3	6			30	
CORE	C1 & C2	U CORE - English Language	6	3	3										6	
Sub-total for University CORE			36												36	
Term load (excl. free credits)																
18	18	15	19	20	18	18	18	18	18	18	16					
178##																

- Notes:  
( ) indicates the reuse of the same course to fulfill more than one requirement.  
\* Courses offered in winter term  
^ Courses offered in summer term  
--- denotes the course/requirement is either waived or substituted  
## To graduate, students should complete all requirements as specified for DDP.

\*\*Remarks on course(s):

- LABU 2040: This is a new course subject to approval. (effective from 2016/17 and applicable to students admitted in or after 2016/17)
- LABU 2060: This is a new course subject to approval. (effective from 2016/17 and applicable to students admitted in or after 2016/17)
- IEDA courses: Course code of IEDA courses will be changed to IEDA (effective from 2018-19)
- IEDA 3010: Course title and course code of IEDA3010 - Operations Research I will be changed to IEDA3010 - Prescriptive Analytics (effective from 2018-19)
- MGMT2010: Previous Course Code: SBMT 2010

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

<< Declaration of major