The Hong Kong University of Science and Technology
Academy of Interdisciplinary Studies
An Example on Student's Pathway (as of August 3, 2023)

IEFINA 2023-24 Intake
(Via DDP PBA)

					<< Declaration of BEng major		<< Declaration of BBA major		Student's Pathway							
School:		School of Engineering and School of Business Management														
Program:		Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in Finance)														
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

BEng in Industrial Engineering and Engineering Management
Major Requirements
Engineering Fundamental Courses

Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Y1 Fall	Y1 Spring	Y2 Fall	Y2 Spring	Y3 Fall	Y3 Spring	Y4 Fall	Y4 Spring	Y5 Fall	Y5 Spring	Sub-total	Remarks
		Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5												Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1021	Introduction to Computer Science	3	3										3	
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
		Note: CHEM1020 OR PHYS1112 OR PHYS1312													
CHEM	1020	General Chemistry I	3	3										3	
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-			0	Waived for DDP students
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7												
MATH	1012	Calculus IA	4	3	3									6	
MATH	1013	Calculus IB	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				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								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)										0	
		Required credits for Engineering Fundamental Courses	22-27											18	

Major Required Courses and Electives

Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Y1 Fall	Y1 Spring	Y2 Fall	Y2 Spring	Y3 Fall	Y3 Spring	Y4 Fall	Y4 Spring	Y5 Fall	Y5 Spring	Sub-total	Remarks
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA	1901	Industrial Training and Experience	0									0		0	
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by ISOM 2500 for students who wish to declare FINA as BBA major
IEDA	3010	Presciptive Analytics	3					3						3	
IEDA	3230	Engineering Economics and Accounting	3						3					3	
IEDA	3250	Stochastic Models	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	
		Note: IEDA 4901 OR IEDA 4960 (Students taking the Research Option must take IEDA 4901)													
IEDA	4901	Final Year Thesis	6									3	3	6	
IEDA	4960	Industrial Engineering and Engineering Management Final Year Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
LANG	4032	Technical Communication II for IEDA and ISDN	3										3	3	
IEDA		Industrial Engineering Electives (Courses from the specified elective list, of which at least 15 credits should be taken from 1 of the 2 areas and at least 6 credits outside that area.)	21			6	3			3		3	6	21	
		Required credits for Major Requirements Courses and Electives	57											54	

BBA in Finance
School Requirements

Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Y1 Fall	Y1 Spring	Y2 Fall	Y2 Spring	Y3 Fall	Y3 Spring	Y4 Fall	Y4 Spring	Y5 Fall	Y5 Spring	Sub-total	Remarks
ACCT	2010	Principles of Accounting I	3	3										3	
ACCT	2200	Principles of Accounting II	3							3				3	
		Note: ECON 2103 OR ECON 2113													This course will be counted as an IE major required course.
ECON	2103	Principles of Microeconomics	3			(3)								0	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011/2012H
ISOM	2020	Coding for Business	1	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students if they have taken and passed COMP 1021 or COMP 1029P
ISOM	2500	Business Statistics	3			3								3	will be used to substitute IEDA 2540
ISOM	2600	Introduction to Business Analytics	1									1		1	
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	
LANG	2061	Professional Writing for the Workplace	3								3			3	Non DDP-ECON students take ONLY a 3-credit of SBM-specific English course, in which they can choose from one of the three LANG courses (LANG 2061, LANG 2062, or LANG 3060).
LANG	2062	Professional Speaking for the Workplace	3												
LANG	3060	Advanced Academic Writing	3												
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												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	1003	Calculus and Linear Algebra	3	(3)										0	
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											29	

Major Requirements
Major Required Courses and Electives

Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Y1 Fall	Y1 Spring	Y2 Fall	Y2 Spring	Y3 Fall	Y3 Spring	Y4 Fall	Y4 Spring	Y5 Fall	Y5 Spring	Sub-total	Remarks
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3						3					3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
		Note: ISOM 3230 OR ISOM 3400	3												
ISOM	3230	Business Programming in VBA	3						3					3	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.
ISOM	3400	Business Applications Development in Python	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											25	

Additional Requirements
Requirements for Dual Degree Program
Required Courses

Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Y1 Fall	Y1 Spring	Y2 Fall	Y2 Spring	Y3 Fall	Y3 Spring	Y4 Fall	Y4 Spring	Y5 Fall	Y5 Spring	Sub-total	Remarks
TEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	T&M Case Analysis and Product Innovation	3		3									3	
TEMG	4950	T&M Corporate Consulting Project	3-5					4						4	
		Required credits for Additional Requirements	7											7	

University CORE

Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Y1 Fall	Y1 Spring	Y2 Fall	Y2 Spring	Y3 Fall	Y3 Spring	Y4 Fall	Y4 Spring	Y5 Fall	Y5 Spring	Sub-total	Remarks
CORE	C3 - C9	U CORE - Others	21		3	3			6	3	3	3		21	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2									3	
		Sub-total for University CORE	30											30	

| | | Term load (excl. free credits) | | 16 | 17 | 18 | 15 | 17 | 17 | 17 | 15 | 15 | 16 | | |
| | | | | | | | | 163## | | | | | | | |

<< Declaration of BEng major   << Declaration of BBA major

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):