The Hong Kong University of Science and Technology

Academy of Interdisciplinary Studies

An Example on Student's Pathway (as of August 8, 2024)

MEECON **2024-25 Intake**

(Via DDP PBA)

										<< *Declaration of BEng major*		<< *Declaration of BBA major*						
School:		**School of Engineering and School of Business Management**		Student's Pathway														
Program:		**Dual Degree Program (BEng in Mechanical Engineering and BBA in Economics)**																**Remarks**
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**	
BEng in Mechanical Engineering																		
Major Requirements																		
Engineering Fundamental Courses																		
		Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5															
COMP	1021	Introduction to Computer Science	3															
COMP	1022P	Introduction to Computing with Java	3	3										3				Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	2011	Programming with C++	4															
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5															
		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															
MATH	1013	Calculus IB	3															
MATH	1014	Calculus II	3	3	3									6				
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				
		Note: MATH2111 OR MATH2350 OR MATH2351																
MATH	2111	Matrix Algebra and Applications	3															
MATH	2350	Applied Linear Algebra and Differential Equations	3							3				3				
MATH	2351	Introduction to Differential Equations	3															
		Note: PHYS1112 OR PHYS1312																
PHYS	1112	General Physics I with Calculus	3		3									3				
PHYS	1312	Honors General Physics I	3															
		[1 course from the specified course list]	3-4															
PHYS	1101	Introductory Physics	4															
CHEM	1008	Introductory Chemistry	3		(3)									0				
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3															
LIFS	1901	General Biology I	3															
		Required credits for Engineering Fundamental Courses	19-25											18				
Major Required Courses and Electives																		
MECH	1990	Industrial Training	0			0*	0^							0				
MECH	1906	Mechanical Engineering for Modern Life	3			3								3				
MECH	2020	Statics and Dynamics	3			3								3				
MECH	2040	Solid Mechanics I	3						3					3				
MECH	2210	Fluid Mechanics	3						3					3				
MECH	2310	Thermodynamics	3			3								3				
MECH	2410	Engineering Materials I	3				3							3				
MECH	2520	Design and Manufacturing I	3				3							3				
MECH	3030	Mechanisms of Machinery	3							3				3				
		Note: MECH3300 OR MECH3420 OR MECH3520 OR MECH3710																
MECH	3300	Energy Conversion	3															
MECH	3420	Engineering Materials II	3							3				3				
MECH	3520	Design and Manufacturing II	3															
MECH	3710	Manufacturing Processes and Systems	3															
MECH	3310	Heat Transfer	3							3				3				
MECH	3610	Control Principles	3					3						3				
MECH	3630	Electrical Technology	3						3					3				
MECH	3830	Laboratory	3								3			3				
MECH	3907	Mechatronic Design and Prototyping	3						3					3				
MECH	4900	Final Year Design Project	6									3	3	6				
ELEC	2420	Basic Electronics	3			3								3				
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0				
		Required credits for Major Requirements Courses and Electives	51											51				
BBA in Economics																		
School Requirements																		
ACCT	2010	Principles of Accounting I	3	3										3				
ACCT	2200	Principles of Accounting II	3						3					3				
		Note: ECON 2103 OR ECON 2113																
ECON	2103	Principles of Microeconomics	3			3								3				
ECON	2113	Microeconomics	3															ECON 2103 / 2113 / 2123 is a major pre-requisite
		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				
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				
ISOM	2600	Introduction to Business Analytics	1										1	1				
ISOM	2700	Operations Management	3									3		3				
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				
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4															
MATH	1003	Calculus and Linear Algebra	3															
MATH	1012	Calculus IA	4															
MATH	1013	Calculus IB	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	1020	Accelerated Calculus	4															
MATH	1023	Honors Calculus I	3															
		Required credits for School Requirements	39-40											32				
Major Requirements																		
Major Required Courses and Electives																		
ECON	3014	Managerial Microeconomics	4					4						4				
ECON	3024	Managerial Macroeconomics	4						4					4				
ECON	3334	Introduction to Econometrics	4							4				4				
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11				
		Required credits for Major Required Courses and Electives	23											23				
Additional Requirements																		
Requirements for Dual Degree Program																		
Required Courses																		
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																		
CORE	C3 - C9	U CORE - Others	21			3	3				6	3	6	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	19	16	13	15	15					
				161##														
						<< *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):

>> 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.