The Hong Kong University of Science and Technology

Academy of Interdisciplinary Studies

An Example on Student's Pathway (as of April 1, 2025)

MEFINA **2025-26 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 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 Mechanical Engineering																
Engineering Fundamental Courses																
		Note: COMP1023 OR COMP2011 OR COMP2012H	3-5													
COMP	1023	Introduction to Python Programming	3	3										3		Students should take COMP 1023, COMP 2011 or COMP 2012H 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 1013 OR MATH1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7													
MATH	1013	Calculus I	3	3	3									6		DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
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		
		Note: MATH2111 OR MATH2350 OR MATH2351	3													
MATH	2111	Matrix Algebra and Applications	3				3							3		
MATH	2350	Applied Linear Algebra and Differential Equations	3													
MATH	2351	Introduction to Differential Equations	3													
		Note: PHYS1112 OR PHYS1312	3													
PHYS	1112	General Physics I with Calculus	3		3									3		
PHYS	1312	Honors General Physics I	3													
		Science 1000-level course (1 course of the specificied course list)	3-4													
CHEM	1008	Introductory Chemistry	3													
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3		3									3		
LIFS	1901	General Biology I	3													
PHYS	1101	Introductory Physics	4													
		Required Credits for Engineering Fundamental Courses	19-25	6	9	3	3	0	0	0	0	0	0	21		
Major Required Courses and Electives																
MECH	1001	Academic and Professional Development I	0	0	0	0	0							0		
MECH	1910	Foundations of Mechanical and Aerospace Engineering	3	3										3		
MECH	1990	Industrial Training	0			0*	0*							0		
MECH	2002	Academic and Professional Development II	0					0	0	0	0			0		
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 0 OR MECH3710	3													
MECH	3300	Energy Conversion	3					3						3		
MECH	3420	Engineering Materials 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		
		BEng in Mechanical Engineering Major Requirements		3	0	9	12	12	9	0	0	3	3	51		
BBA in Finance																
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	3													
ECON	2103	Principles of Microeconomics	3			3								3		
ECON	2113	Microeconomics	3													
		Note: ECON 2123 OR ECON 3123	3													
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		COMP 1023, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 or COMP2011 or COMP2012H instead of ISOM 2010.
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0		ISOM 2020 is waived for DDP students who have taken and passed COMP 1023, COMP 2011 and COMP 2012H. The COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.
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 1013 OR MATH 1020 OR MATH 1023	3-4													
MATH	1003	Calculus and Linear Algebra	3	(3)										0		DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees
MATH	1013	Calculus IB	4													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
		Required Credits for School Requirements	39-40	6	3	6	3	1	3	3	0	5	2	32		
Major Required Courses and Electives																
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 1023 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	0	0	0	0	4	6	6	3	3	3	25		
Additional Requirement for Dual Degree																
Requirements for Dual Degree Program																
TEMG	1011	T&M Professional Activities I	0	0	0									0		
TEMG	1012	T&M Professional Activities II	0			0	0							0		
TEMG	1013	T&M Professional Activities III	0					0	0					0		
TEMG	1014	T&M Professional Activities IV	0							0	0			0		To graduate, students should complete **ALL** requirements as specified for DDP.
TEMG	1015	T&M Professional Activities V	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	0	3	0	0	0	0	0	4	0	0	7		
University Common Core Requirements																
CORE	C3 - C9	U CORE - Others	21							6	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	4	5	0	0	0	0	6	6	3	6	30		
									Term load (excl. free credits)							
				19	20	18	18	17	18	15	13	14	14	**166**		
				166##												

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.