## The Hong Kong University of Science and Technology



Academy of Interdisciplinary Studies

An Example on Student's Pathway (as of August 3, 2023)

						<< Decla BEng ma		<< Decla BBA ma							
School:		School of Engineering and School of Business Management		T		BEng ma	ajor	вва та	or	Studen	t's Pathwa	y			
Program:		Dual Degree Program (BEng in Mechanical Engineering and BBA in Econor													
Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Year 1	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
(course code prefix)			its	1 Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	otal	
BEng in Me	chanical Eng	jineering													4
Major Require	ements														
Engineering Fund	lamental Courses	Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5				1					1	1	1	Т
COMP COMP	1021 1022P	Introduction to Computing with Java	3	3		i		i						3	Students should take COMP1021 which will also be used to substitute
COMP	2011 2012H	Programming with C++ Honors Object-Oriented Programming and Data Structures	4	Ŭ		i		i						Ŭ	ISOM 2010 and to waive ISOM 2020
LANG	2030	Technical Communication I	3	-	-	İ ·	-	j ·	-	-	-	-	-	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			i		i							
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3	2	2	i		i						6	
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4	3	3	i		i						0	
MATH MATH	1023 1024	Honors Calculus I Honors Calculus II	3			i		i							
MATH	2011	Introduction to Multivariable Calculus	3			i		3						3	
MATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications	3			i		i		3				3	
MATH MATH	2350 2351	Applied Linear Algebra and Differential Equations Introduction to Differential Equations Note: PHYS1112 OR PHYS1312	3 3			<u>i</u>		i		, in the second				-	
PHYS	1112	General Physics I with Calculus	3		3	i		i						3	
PHYS	1312	Honors General Physics I [1 course from the specified course list]	3 3 or 4			i		i							
PHYS	1101	Introductory Physics	4		(3)	į		i						0	
CHEM CHEM	1008 1020	Introductory Chemistry General Chemistry I	3 3		(0)	į		i						-	
LIFS	1901	General Biology 1 Required credits for Engineering Fundamental Courses	3 22-26			i		i						18	
	ourses and Electiv			1					1			1			1
MECH MECH	1990 1906	Industrial Training Mechanical Engineering for Modern Life	0			0* 3	0^	i –				-		0	
MECH	2020	Statics and Dynamics	3			3		į						3	
MECH MECH	2040 2210	Solid Mechanics I Fluid Mechanics	3	_		į –		į –	3					3	
MECH	2310	Thermodynamics	3			3		İ	3					3	
MECH	2410	Engineering Materials I	3			<u> </u>	3	<u>i</u>						3	
MECH MECH	2520 3030	Design and Manufacturing I Mechanisms of Machinery	3	-		!	3	i –		3				3	
MECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 OR MECH3710 Energy Conversion	3			<u>î</u>		<u>i</u>							
MECH MECH	3420 3520	Engineering Materials II Design and Manufacturing II	3			į		į		3				3	
MECH MECH	3710 3310	Manufacturing Processes and Systems Heat Transfer	3			į —		į —		3				3	
MECH	3610	Control Principles	3			İ		3		5				3	
MECH	3630	Electrical Technology	3			<u> </u>		į	3					3	
MECH MECH	3830 3907	Laboratory Mechatronic Design and Prototyping	3			į –		i –	3		3			3	
MECH	4900	Final Year Design Project	6			<u>i</u>		i <u> </u>				3	3	6	
ELEC	2420 2010	Basic Electronics Engineering Seminar Series	3			3	0	0	0					3	
LANG	4034	Engineering Seminar Series Technical Communication II for Mechanical and Areospace Engineering	3			0	0	0	0		3			3	
		quired credits for Major Requirements Courses and Electives	51			i		İ 📃						54	
BBA in Eco															
School Requi	2010	Polosista of Association I	0			-		:		1			1	3	<u>т</u>
ACCT ACCT	2010	Principles of Accounting I Principles of Accounting I	3	3		i –		i –	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			3		İ						3	
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3	_		į –		į –							ECON 2103 / 2113 / 2123 is a majo pre-requisite
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			į		3						3	
FINA	2303	Financial Management	3		3	į —		į						3	Substituted by COMP 1021/ 1022P
ISOM	2010	Introduction to Information Systems	3	-	-	· ·	-	<u> </u>	-	-	-	-	-	0	Substituted by COMP 1021/ 1022P 2011/ 2012H Waived for DDP students if they
ISOM	2020	Coding for Business	1	-	-	· ·	-	· ·	-	-	-	-	-	0	have taken and passed COMP 102 or COMP 1029P
ISOM	2500	Business Statistics	3	3		!		<u>t</u>						3	OF COMP 1029P
ISOM	2600	Introduction to Business Analytics	1			<u>i</u>		!				^	1	1	
ISOM MARK	2700 2120	Operations Management Marketing Management	3	╢──	+	<u>i</u>	3	<u> </u>			-	3		3	+
MGMT	2010	Business Ethics and the Individual	2		1	<u>į                                    </u>		(				2		2	1
MGMT MGMT	2110 2130	Organizational Behavior Business Ethics and Social Responsibility	3			į –	3	į –					2	3	+
ECON	3700	Writing as an Economist	3			i		<u>i</u>		3			2	3	<u> </u>
LANG	2062	Professional Speaking for the Workplace Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3 3-4	-	-	· ·	-	· ·	-	-	-	-	-	0	Waived for DDP students
MATH MATH	1003 1012	Calculus IA	3 4			į		į							DDP students should take MATH 1012 or MATH 1013 or MATH 1020
MATH	1013	Calculus IB	3	(3)		į		i						0	or MATH 1023 to satisfy the requirements of both BEng and BB/
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4			į		i							degrees
Major Require	emente	Required credits for School Requirements	43-44	1		<u>;                                    </u>	1	<u>i</u>	1			1		35	<u> </u>
	ourses and Electiv	es													
ECON	3014	Managerial Microeconomics	4			<u> </u>		4						4	
ECON	3024	Managerial Macroeconomics	4			ļ —		<u> </u>	4					4	
ECON	3334	Introduction to Econometrics	4			i –		i —		4	<u> </u>	.	-	4	
ECON	1	ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	11 23					i –			4	4	3	11 23	
Additional E			23	11	1		1		1	1	1		<u> </u>	23	L

Additional Requirements

Additional Nequilements															
Requiremen	ts for Dual Degr	ee Program													
Required Cours	es														
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	I								3	
TEMG	4950	T&M Corporate Consulting Project	3-5			Ĭ		4						4	
Required credits for Additional Requirements 7						i								7	
University C	ORE					-									
CORE	C3 - C9	U CORE - Others	21			3	3	i			6	3	6	21	
CORE	C1 & C2	U CORE - English Language	6	3	3	1		!						6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2	!		!						3	
		Sub-total for University CORE	30			Ì		Î						30	
	Term load (excl. free credits)											•			
				16	17	18	15	17	19	19	16	15	15		
				167##											
Notes:								<< Declaration of							
						BEng ma	jor	BBA maj	A major						
						-		-							

( ) 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.