The Hong Kong University of Science and Technology

Academy of Interdisciplinary Studies

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

AEECON **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 Aerospace 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 Aerospace Engineering																
Major Requirements																
Engineering Fundamental Courses																
		Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5													
COMP	1021	Introduction to Computer Science	3													Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computing with Java	3	3										3		
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	3	3									6		
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														
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													
		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)									0		
LIFS	1901	General Biology I	3													
PHYS	1101	Introductory Physics	4													
		Required credits for Engineering Fundamental Courses	19-25											18		
Major Required Courses and Electives																
MECH	1907	Introduction to Aerospace Engineering	3			3								3		
MECH	1990	Industrial Training	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	3400	Introduction to Composite Materials	3							3				3		
MECH	3610	Control Principles	3					3						3		
MECH	3620	Aircraft Design	3								3			3		
MECH	3640	Aerodynamics	3							3				3		
MECH	3650	Aircraft Structural Analysis	3							3				3		
MECH	3660	Gas Turbines and Jet Propulsion	3								3			3		
MECH	3670	Aircraft Performance and Stability	3							3				3		
MECH	3680	Avionics Systems	3						3					3		
MECH	3690	Aerospace Engineering Laboratory	3								3			3		
MECH	4980	Final Year Aerospace Design Project	6									3	3	6		
ELEC	2420	Basic Electronics	3					3						3		
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0		
MECH		MECH Electives in Aerospace (2 courses from the specified elective list)	6									3	3	6		
		Required credits for Major Requirements Courses and Electives	60											60		
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 2103 / 2113 / 2123 is a major pre-requisite
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		
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 COMP1021 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													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	1012	Calculus IA	4	(3)										0		
MATH	1013	Calculus IB	3													
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	3	6			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	18	18	19	18	16	15	15			
				170##												
						<< 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.