The Hong Kong University of Science and Technology
Academy of Interdisciplinary Studies
An Example on Student's Pathway (as of August 8, 2024)

CEFINA 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 Chemical 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 Chemical Engineering
Major Requirements
Engineering Fundamental Courses

Dept.	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	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												
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3	3										3	
		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	
		Note: PHYS 1112 OR PHYS 1312	3												
PHYS	1112	General Physics I with Calculus	3		3									3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	16-21											18	

Major Required Courses and Electives

Dept.	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
		Note: CENG1000 OR CENG1500	3												
CENG	1000	Introduction to Chemical and Biological Engineering	3	3										3	
CENG	1500	A First Course on Materials Science and Applications	3												
		Note: CENG1600 OR CENG1700 OR BIEN1010	3												
CENG	1600	Biotechnology and Its Business Opportunities	3		3									3	
CENG	1700	Introduction to Environmental Engineering	3												
BIEN	1010	Introduction to Biomedical Engineering	3												
CENG	1010	Academic and Professional Development I	0		0									0	
CENG	1980	Industrial Training	0									0	0	0	
CENG	2110	Process and Product Design Principles	3			3								3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	2220	Transport Phenomena I	3				3							3	
CENG	2310	Modeling for Chemical and Biological Engineering	3			3								3	
CENG	3110	Process Dynamics and Control	3						3					3	
CENG	3150	Integrated Chemical Process & Product Design	5						5					5	
CENG	3210	Separation Processes	3					3						3	
CENG	3220	Heat and Mass Transfer	3					3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG	3330	Data Science for Molecular Engineering	3			3								3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4			4	
CENG	4020	Academic and Professional Development II	0								0			0	
		Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students taking the Research Option must take CENG 4930)	6												
CENG	4920	Chemical Engineering Capstone Design	6									3	3	6	
CENG	4930	Chemical Engineering Thesis Research	6												
CENG	4940	Chemical Engineering Industrial Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM	1052	Laboratory for General Chemistry B	1		1									1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3							3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1				1							1	
		Note: BIEN2410 OR BIEN2610 OR LIFS1901	3												
BIEN	2410	Cellular and Systems Physiology for Engineers	3				3							3	
BIEN	2610	Chemical Biology for Engineers	3												
LIFS	1901	General Biology I	3												
CENG/CHEM		CENG Elective (9 credits from specified elective list)	9				3	3	3					9	
		Required credits for Major Requirements Courses and Electives	65											65	

BBA in Finance
School Requirements

Dept.	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	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	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	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												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	39-40											32	

Major Requirements
Major Required Courses and Electives

Dept.	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	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												If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.
ISOM	3230	Business Programming in VBA	3						3					3	
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

Dept.	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	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

Dept.	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
CORE	C3 - C9	U CORE - Others	21							6	6		9	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)

	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S
	19	21	15	19	20	20	19	16	11	17

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<< 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.