## The Hong Kong University of Science and Technology

CEMGMT 2022-23 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management		П		BEng ma	joi	BBA maj	<i></i>	Student'	t's Pathway				
			nont)							Student	.s ralliway				
Program:	1	Dual Degree Program (BEng in Chemical Engineering and BBA in Manager	nent)												-
Course				Ύe	Year	Ύe	Year	, e	Year	Ύe	Year	Ύe	Year	S	Remarks
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	⁄ear 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	/ear 5 Spring	Sub-total	
(course code prenx)			S	a <u>a</u>	oring	a≝	oring	ä	oring	<u>a</u>	oring	a <u></u>	oring	<u>ai</u>	
BEng in Che	emical Engin	eering		П	<u> </u>	-		_							•
Major Require	ments														
Engineering Fund		Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5			I		I							Students should take COMP1021
COMP COMP	1021 1022P 2011	Introduction to Computer Science Introduction to Computing with Java Programming with C++	3 3 4	3		Ī		i I						3	which will also be used to substitute ISOM 2010 and to waive ISOM
COMP CHEM	2011 2012H 1020	Honors Object-Oriented Programming and Data Structures  General Chemistry I	5	3		<u>i                                      </u>		<u> </u>						3	2020
LANG	2030	Technical Communication I	3	-	-	<u> </u>	-		-	-	-	-	-	0	Waived for DDP students
MATH	1012	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4-7			! !		! :							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3			<u> </u>						6	
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4			i		i I							
MATH MATH	1024 2011	Honors Calculus II Introduction to Multivariable Calculus	3			<del>!</del>		3						3	
PHYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3		3	!		<u> </u>						3	
PHYS	1312	Honors General Physics   Required credits for Engineering Fundamental Courses	19-24			! !		] 						18	
	ourses and Electiv	Note: CENG1000 OR CENG1500				i		1							
CENG CENG	1000 1500	Introduction to Chemical and Biological Engineering A First Course on Materials Science and Applications Note: CENG1600 OR CENG1700 OR BIEN1010	3	3		<u>i</u>		<u>i</u>						3	
CENG CENG	1600 1700	Biotechnology and Its Business Opportunities Introduction to Environmental Engineering	3		3	į		į						3	
BIEN CENG	1010 1010	Introduction to Biomedical Engineering Academic and Professional Development I	3			0		<u> </u>						0	
CENG	1980	Industrial Training	0			_		:					0	0	
CENG CENG	2110 2210	Process and Product Design Principles Chemical and Biological Engineering Thermodynamics	3			3	3	<u>;</u>						3	
CENG CENG	2220 2310	Transport Phenomena I  Modeling for Chemical and Biological Engineering	3	-		3	3	<u> </u>						3	
CENG	3110	Process Dynamics and Control	3	1		<u> </u>		<u> </u>	3					3	
CENG CENG	3150 3210	Integrated Chemical Process & Product Design Separation Processes	5 3			<u> </u>		3	5					5	
CENG CENG	3220 3230	Heat and Mass Transfer Chemical and Biological Reaction Engineering	3	-		<u> </u>		3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4	1		<u>i</u>		<u> </u>			4			4	
CENG	4020	Academic and Professional Development II Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students 6	0	1		İ		<u> </u>		<del> </del>		0		0	
CENG CENG	4920 4930	taking the Research Option must take CENG 4930) Chemical Engineering Capstone Design Chemical Engineering Thesis Research	6 6			!		! :				3	3	6	
CENG ENGG	4940 2010	Chemical Engineering Industrial Project Engineering Seminar Series	6			0	0	0	0					0	
CHEM	1050	Laboratory for General Chemistry I	1		1	į								1	
CHEM CHEM	2111 2155	Fundamentals of Organic Chemistry Fundamental Organic Chemistry Laboratory	3 1			i	3 1	<del>!</del>						3	
LANG	4035	Technical Communication II for Chemical and Biological Engineering Note: BIEN2410 OR BIEN2610 OR LIFS1901	3			<u> </u>		<u> </u>				3		3	
BIEN BIEN	2410 2610	Cellular and Systems Physiology for Engineers Chemical Biology for Engineers	3				3	! !						3	
LIFS SENG/SSCI/ENVR	1901	General Biology I CENG Elective (12 credits from specified elective list)	3 12			i		3	3	3	3			12	
BBA in Man		uired credits for Major Requirements Courses and Electives	68			<u> </u>		<u>:</u>						68	
School Requir															
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3			3		! !	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			I 3		<u>:</u> i	3					3	
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3			÷		<del>!</del>							
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3					<u> </u>		3				3	
FINA	2303	Financial Management Introduction to Information Systems	3		_	<u> </u>	3	<u> </u>	_	_	_	_	_	3	Substituted by COMP
ISOM	2020	Coding for Business	1			<u> </u>		<u> </u>						0	1021/1022P/2011/2012H Waived for DDP students if they have taken and passed COMP1021
ISOM	2500	Business Statistics	3			3		<u> </u>						3	or COMP 1029P
ISOM	2600	Introduction to Business Analytics	1			1								1	
ISOM MARK	2700 2120	Operations Management  Marketing Management	3			<u> </u>	3	<u> </u>				3		3	
MGMT	2010	Business Ethics and the Individual	2					i i				2		2	MGMT 2110 is a major pre-
MGMT MGMT	2110 2130	Organizational Behavior  Business Ethics and Social Responsibility	3			3		<u>:                                    </u>					2	3	requisite
LABU	2040	Business Case Analyses	3	-	-		-	-	-	-	-	-	-	0	Waived for DDP students
LABU	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4	1		!		<del>                                     </del>					3	3	DDP students should take MATH
MATH MATH MATH	1003 1012 1013	Calculus and Linear Algebra Calculus IA	3 4	(3)		! :		! :						0	1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the
MATH MATH MATH	1020 1023	Calculus IB Accelerated Calculus Honors Calculus I	3 4 3			i		i							requirements of both BEng and BBA degrees
	l.	Required credits for School Requirements				<u> </u>		<u>;                                    </u>						35	
Major Requirements  Major Required Courses and Electives															
ajor i toquileu O	_ 3.555 GIIG EIGORV	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this	4			<u> </u>		<del>:                                    </del>							Childenta in the Co
MGMT MGMT	3110 3120	requirement.) Human Resources Management	4			į		4						4	Students in the Consulting Option must take MGMT 3120
		Managerial Leadership  Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4	1		<u>;                                    </u>		<u>:                                    </u>							Students in the Consulting
MGMT MGMT	3130 3140	Judgement and Decision Making in Organizations	4 4			<u>i</u>		<u>!</u>	4					4	Option must take MGMT 3140
		Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill	3-4			i		!							Students in the Consulting Option must take MGMT 4210
MGMT MGMT	4210 4220	this requirement.) Corporate Strategy Entrepreneurship and Innovation	3 4			i		: i		3				3	Students in the CSR Option must take MGMT 4210
		Entrepreneursnip and innovation  MGMT 3000-level or above Electives (Any 3 courses of the subject and level as		1		i		į							Students in the Consulting Option are recommended to
MGMT		MISM I 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9			i		ļ			3	3	3	9	take MGMT 4220 and a new course in Simulating Strategy
			00.5	1		! 		! <del>:</del>						6.	to fulfill the major elective requirement
Additional R	Requirements	Required credits for Major Required Courses and Electives  S	20-21	11	1	1	1	<u> </u>	1	1	1	1	1	24	1
Requirements	for Dual Degr														
Required Courses	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	<u> </u>
TEMG	3950	T&M Case Analysis and Product Innovation	3	1	3	<del>!                                    </del>	<u> </u>	<del> </del>	<u> </u>	Ť	Ť	Ť	<u> </u>	3	
TEMG	4950	T&M Corporate Consulting Project	3-5							4				4	
University 00	DE	Required credits for Additional Requirements	7			<u> </u>		<u> </u>						7	
University CO CORE	C3 - C9	U CORE - Others	21					:		6	6	3	6	21	
CORE	C1 & C2	U CORE - English Language	6	3	3	į		į						6	
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness  Sub-total for University CORE	3	0	3	<u> </u>	<del> </del>	<del>!</del>	<del> </del>	<del>                                     </del>			<del>                                     </del>	3 30	
			•	4-	1 40	40		erm load (ex			1 40				•
				15	19	19	19	19 <b>18</b>	18 <b>2##</b>	19	16	17	17		
Notes:	s:					<< Declar BEng ma		<< Declar BBA maj							

- ( ) indicates the reuse of the same course to fulfill more than one requirement. \* Courses offered in winter term

\*\*Remarks on course(s):

- ^ Courses offered in summer term
  --- denotes the course/requirement is either waived or substituted  $\ensuremath{\textit{\#\#}}$  To graduate, students should complete all requirements as specified for DDP.

SEng major BBA major