The Hong Kong University of Science and Technology

School of Engineering and School of Business Management

Interdisciplinary Programs Office
An Example on Student's Pathway << Declaration of BEng major BBA major CEMARK 2020-21 Intake (Via DDP PBA)

Student's Pathway

rogram:		School of Engineering and School of Business Management	Student's Pathway												
		Dual Degree Program (BEng in Chemical Engineering and BBA in Mark	teting)												
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
Eng in Ch	omical Engi	incoring			g	<u> </u>	g	<u> </u>	g		g		g		
lajor Require	emical Engi	meering													
	lamental Courses														
OMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4 3			i		i							This course will also be u
OMP OMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4	3		i		i						3	substitute ISOM 20
NGG	1010	Academic Orientation	0	0	0	i		i 						0	
HEM	1010	Note: CHEM1010 OR CHEM1020 General Chemistry IA	3	3		Ī		Ī						3	
HEM	1020	General Chemistry IB	3	Ů		<u> </u>		<u>i</u>							
ANG	2030	Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	3 4-7	1		<u> </u>		3						3	
ATH	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4] :		!							
ATH	1013	Calculus IB	3	3	3	! :		!						6	
IATH IATH	1014 1020	Calculus II Accelerated Calculus	3 4			!		!							
IATH IATH	1023 1024	Honors Calculus I Honors Calculus II	3			ŧ		1							
ATH	2011	Introduction to Multivariable Calculus	3			3		:						3	
HYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3	3		i		i						3	
HYS	1312	Honors General Physics I Required credits for Engineering Fundamental Course	3 9 S 19-23	-		i		i						21	
lajor Required C	ourses and Electi		19-23	1	I									21	
-		Note: CENG1000 OR CENG1500 Introduction to Chemical and Biological Engineering	3	3		i		i						3	
ENG ENG	1000 1500	A First Course on Materials Science and Applications	3	3		j		<u>i </u>						3	
ENG	1600	Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities	3			į		į							
ENG EN	1700 1010	Introduction to Environmental Engineering Introduction to Biomedical Engineering	3		3	ļ		!		ĺ		Ì	Ì	3	
ENG	1010	Academic and Professional Development I	0		L	0		<u> </u>						0	
ENG	1980	Industrial Training	0				0	0	0	0				0	
ENG ENG	2110 2210	Process and Product Design Principles Chemical and Biological Engineering Thermodynamics	3	1		3	3	<u>!</u>				 	 	3	+
ENG	2220	Process Fluid Mechanics	3				3	<u> </u>						3	
ENG ENG	2310 3110	Modeling for Chemical and Biological Engineering Process Dynamics and Control	3	-		3	-	<u> </u>	3					3	
ENG	3150	Integrated Chemical Process & Product Design	5	1	L	i.	L	Ė	5			L	L	5	
ENG	3210	Separation Processes	3			i –		3						3	
ENG ENG	3220 3230	Heat and Mass Transfer Chemical and Biological Reaction Engineering	3	1		i		3						3	
ENG	3950	Chemical and Environment Engineering Laboratory	4			į		<u> </u>			4			4	
ENG	4020	Academic and Professional Development II Note: CENG4920 OR CENG4930 OR CENG4940	0	-		<u> </u>		! 				0		0	
NG	4920	Chemical Engineering Capstone Design	6			į		į				3	3	6	
ENG ENG	4930 4940	Chemical Engineering Thesis Research Chemical Engineering Industrial Project	6 6			<u> </u>		į							
NGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
HEM HEM	1050 2111	Laboratory for General Chemistry I Fundamentals of Organic Chemistry	3	1	1	<u>!</u>	3	!						3	
HEM	2155	Fundamental Organic Chemistry Laboratory	1				1	!						1	
NG	4035	Technical Communication II for Chemical and Biological Engineering	3			! !		<u> </u>				3		3	
EN	2410	Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers	3			! !	3	:						3	
IEN FS	2610 1901	Chemical Biology for Engineers General Biology I	3			i		i							
ENG/SSCI/ENVR		CENG Elective (12 credits from specified elective list)	12			i		3	3	3	3			12	
BBA in Mar		uired credits for Major Requirements Courses and Elective	es 68	1				•						68	
School Requi															
сст	2010	Principles of Accounting I	3			3		!						3	
CCT	2200	Principles of Accounting II	3			<u>į </u>		<u>į </u>	3					3	
CON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3	!		ļ.						3	
CON	2113	Microeconomics	3			ļ		!							
		Note: ECON 2123 OR ECON 3123						1		3				+	
	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			į		1						3	
ON	2123 3123 2303	Macroeconomics Macroeconomic Theory I	3 3 3			i i :	3	<u>i </u>						3	
ON NA	3123	Macroeconomics	3				3	<u> </u> 							
DM	3123 2303 2010 2020	Macroeconomics Macroeconomic Theory I Financial Management	3 3 3 1			1								3	
CON NA OM OM	3123 2303 2010 2020 2500	Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics	3 3 3 1 3			1 3		 						3 0 1 3	
OON NA DM DM DM DM	3123 2303 2010 2020	Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business	3 3 3 1			1						3		3 0 1	1021/1022P/COMP2
CON NA DM DM DM DM DM DM	3123 2303 2010 2020 2500 2600	Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics	3 3 3 1 3		3	1 3		 						3 0 1 3	1021/1022P/COMP2
OON OOM OOM OOM OOM OOM OOM OOM OOM OOM	3123 2303 2010 2020 2500 2600 2700 2120	Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual	3 3 3 1 3 1 3 1 3 2			1 3 1								3 0 1 3 1 3 3 2	1021/1022P/COMP2
OON AA DM DM DM DM DM DM ARK GMT	3123 2303 2010 2020 2500 2600 2700 2120 2010 2110	Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior	3 3 3 1 3 1 3 1 3 3 2 3			1 3								3 0 1 3 1 3 3	1021/1022P/COMP2
NA DM DM DM DM DM DM DM DM SMT SMT	3123 2303 2010 2020 2500 2600 2700 2120 2010 2110 2130	Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction	3 3 3 1 3 1 3 1 3 2 3 2			1 3 1								3 0 1 3 1 3 3 2 3 2	MARK 2120 is a major requisite
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NA N	3123 2303 2010 2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1022 1023 20ments Courses and Electi 3220 3420 4210 Requirements for Dual Deg	Macroeconomics Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirement IVES Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Elective Its ITechnology and Management Professional Activities	3 3 3 1 3 1 3 1 1 3 3 2 3 2 0 0 3 3 3 4 3 4 4 4 4 4 4 12 25 24	(3)	3	3 3 3			2	3	4		3	3 0 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 3 0 0 3 9 4 4 4 4 1 1 2 2 2 4	MARK 2120 is a major requisite Waived for DDP stud DDP students should take 1012 or MATH 1013 or 1020 or MATH 1023 to sa requirements of both BE
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School:

() 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):