File: 03/21

COMMITTEE ON UNDERGRADUATE STUDIES

Paper for: Discussion/Approval

Title: Dual Degree Program in Technology and Management: 11 BEng/BSc

Programs with Four More BBA Programs

Purpose: The Interdisciplinary Programs Office has submitted a proposal of the

deviation arrangements for the existing 11 BEng/BSc programs with BBA in Economics, BBA in Finance, BBA in Management and BBA in Marketing to take effect from Spring 2021-22 for approval by the CUS

Submitted by: Interdisciplinary Programs Office

Prepared by: CUS Secretariat

BACKGROUND

- 1. Under the four-year degree, students will declare their major under respective schools, while they have also the option to enroll in the dual degree program under which students may earn two different degrees by fulfilling all the requirements of both degree programs.
- 2. At its 124th CUS meeting in May 2012, CUS approved the deviation arrangements for the first batch of nine BEng and BBA dual degree programs under the four-year degree curriculum. Currently, there are 11 BEng/BSc and BBA in General Business Management (GBM) dual degree programs. With demand for more combinations of dual degree program, the Interdisciplinary Programs Office (IPO) has submitted a proposal regarding pre-approved deviation arrangements for the 11 existing BEng/BSc programs with four more School of Business and Management (SBM) BBA programs, namely BBA in Economics, BBA in Finance, BBA in Management and BBA in Marketing, totaling 44 new dual degree programs.

PROPOSED ARRANGEMENTS

- 3. The proposed deviation arrangements follow the framework as approved in May 2012 which are summarized as follows:
 - (a) *Minimum 120-credit requirement:* in the attached normative study plan, the total credits students will earn when completing the newly proposed BEng/BSc and BBA dual degree programs range from 161 to 191, and would not be required to complete additional credits.

- (b) *University Common Core requirement:* students must complete all the requirements of the University Common Core, and may count this to both degrees.
- (c) University English Language requirement: The English Language requirements of the dual degree program combine requirements of the University, School of Engineering (SENG)/School of Science (SSCI) and SBM, with the 6-credit University English Core courses being counted towards both degrees (see Attachment C to the Appendix).
- (d) Substitution and waiver of courses and requirements for School and major requirements: Details of the substitution and waiver arrangements are set out in Attachment A to the Appendix.
- (e) Additional requirement: Students in the dual degree program are required to take an additional non-credit bearing course TEMP 1010 Technology and Management Professional Activities, in addition to the School and major requirements, with an intention to enhance their academic and/or personal development (see Attachments A and B to the Appendix).
- 4. The deviation arrangements have been reviewed and agreed by SENG, SSCI and SBM.
- 5. The deviations from curriculum proposed in paragraph 3 could apply to all students enrolled in the dual degree programs. Any further deviation from the curriculum that may be necessary for individual student, or further curricular changes, will be subject to approval by SENG, SSCI and SBM, following the current policy and procedures for approving deviations from curriculum.
- 6. The changes are proposed to take effect from Spring 2021-21, applicable to 2020-2021 cohort and beyond.

TOTAL CREDITS AND STUDY PATHWAYS

7. For the reference of the Committee, the study pathways for students directly admitted to the Dual Degree Program (full set including the GBM combination), as well as those admitted from the Schools of Science, Engineering, and Business and Management (sample set) are presented in Attachment B to the Appendix. Provided that there is sufficient overlap of courses between the Common Core and School/Major Requirements, students may further benefit from reduced credit requirements.

ACTION SOUGHT

8. CUS is invited to

(i) consider, and approve as appropriate, the proposed deviation arrangements for the dual degree programs under the four-year curriculum set out above in paragraph 3 and in <u>Attachment A to the Appendix</u>; and

(ii)	note for information the total credits needed to complete the proposed dual degree programs, and the students' study pathways as presented in <u>Attachment B to the Appendix</u> .

MEMORANDUM

To:

CUS Secretariat

via:

Prof. Jimmy Fung

Chair, Interdisciplinary Undergraduate Studies Committee

From:

Prof. Kai Lung Hui

Co-director of Dual Degree Program in Technology & Management

Prof. Ravi Goonetilleke

Co-director of Dual Degree Program in Technology & Management

Date:

15th October, 2020

Our Ref:

402/DDP

Subject:

Proposed 5Y Curriculum of Dual Degree Program in Technology & Management

(BEng/BSc with 11 options and BBA with 5 options)

Dual Degree Program in Technology & Management (T&M-DDP) would like to propose the 5-year curriculum with 11 options in BEng/BSc and 5 options in BBA with effect from Spring 2021-22. This change will have effect on the 2020-2021 cohort onwards. The new curriculum will include 44 new majors in addition to the existing 11 majors with BBA degree in GBM. The program structure is listed below.

*	BEng in Bioengineering		BBA in Economics	
	BEng in Chemical Engineering		BBA in Economics	
	BEng in Civil Engineering		BBA in Finance	
	BEng in Civil and Environmental Engineering		BBA III FINANCE	
Total:	BEng in Computer Engineering		DDA in Committee Designation	
55 majors	BEng in Computer Science	and	BBA in General Business	
(44 new	BEng in Decision Analytics	and	Management (Existing)	
majors)	BEng in Electronic Engineering			
	BEng in Industrial Engineering and Engineering		BBA in Management	
g g	Management			
	BEng in Mechanical Engineering		BBA in Marketing	
8	BSc in Biotechnology			

Students can admit to T&M-DDP via program-based admission or school-based admission. Program-based admission students will be admitted to T&M-DDP in their first year and school-based admission students will be admitted to T&M-DDP in their second year. Students will declare their major via the Major Selection Exercises (MSE) at the ends of their first year and second year for BEng/BSc degree and BBA degree of T&M-DDP respectively. Pathway templates of all majors for program-based admission students and four sets of sample pathway for school-based admission students are presented to demonstrate their study progress (see Attachment B).

The program requirements of T&M-DDP are devised by combining the requirements of the BEng/BSc program and the BBA program. This will apply in the proposed 5-year curriculum with the following taken into consideration:

The course substitutions and waivers that are applicable in the existing BEng/BSc&BBA Dual Degree program will continue to apply in the proposed Dual Degree programs with new BBA options (See attachment A).

2. Additional Dual Degree Requirements

Additional requirements specifically for the Dual Degree Program, including TEMG1010 and TEMG3950 are presented in the pathway templates (see *attachment B*) and "Deviation from Curriculum" (see *attachment A*).

3. English Language Requirements

The English Language requirements of the new BEng/BSc&BBA Dual Degree programs are a combination of the requirements of university, SENG/SSCI and SBM (see *attachment C*).

4. Double Counting of Common Core Requirements

The double-counting policy applicable to existing BEng/BSc&BBA Dual Degree programs, which is to apply double-counting policy to each degree separately will continue to apply in the proposed Dual Degree programs.

Below please find the concurrence obtained from departments/schools in concern,

School/	Approval	Name	Initial	Date
Dept.				
CBE	Yes / No			
CIVL	Yes / No			
CSE	Yes / No			
CPEG	Yes / No			
ECE	Yes / No			
IEDA	Yes / No			
MAE	Yes / No			
LIFS	Yes / No			
ECON	Yes / No			
FINA	Yes / No			
MARK	Yes / No			
MGMT	Yes / No			
SSCI	Yes / No			
SENG	Yes / No			
SBM	Yes / No			

For consideration and approval please. Thank you very much.

Encl.

- A. Attachment A Deviation from Curriculum
- B. Attachment B Suggested pathways of all Dual Degree programs
- C. Attachment C English language requirements of all Dual Degree programs

Below please find the concurrence obtained from departments/schools in concern,

School/Dept.	Approval	Name	Date
CBE	Yes / No	Prof Ying CHAU	2 Nov 2020
CIVL	Yes / No	Prof Jack CHENG	13 Nov 2020
CSE	Yes / No	Dr Qiong LUO	22 Oct 2020
CPEG	Yes / No	Prof Wilfred NG	16 Oct 2020
ECE	Yes / No	Prof Weichuan YU	16 Oct 2020
IEDA	Yes / No	Prof Jiheng ZHANG	19 Oct 2020
MAE	Yes / No	Prof Baoling HUANG	16 Oct 2020
LIFS	Yes / No	Prof Robert KO	16 Oct 2020
ECON	Yes / No	Prof Albert PARK	12 Nov 2020
FINA	Yes / No	Prof Chu ZHANG	23 Nov 2020
MARK	Yes / No	Prof Jiewen HONG	12 Nov 2020
MGMT	Yes / No	Prof Yaping GONG	13 Nov 2020
SSCI	Yes / No	Prof Pakwo LEUNG	20 Oct 2020
SENG	Yes / No	Prof Philip K.T. MOK	22 Oct 2020
SBM	Yes / No	Prof Allen HUANG	12 Nov 2020

for Dual Degree Program

Degree Program 1: BEng in Bioengineering (BIEN)
Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

BBA in Management (MGMT) OR

BBA in Marketing (MARK)

	Original requi specified for th prograi	e degree		Proposed substi course/ requirer			
Degree Program	Course code/ requirement	Credits	Substituted/ Waived/ Additional Req't/ Others	Course code/ requirement	Credits	Remarks	
ECON/FINA/GBM/ MGMT/MARK	SBMT 1111	0	Waived	-		DDP students do not need to join this non-credit bearing development course originally designed for Business students	
BIEN	ENGG 1010	0	Waived	-		[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.	
BIEN	-	-	Additional Req't	TEMG 1010		DDP students should take this non-credit bearing course to enhance their academic development.	
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 1010		DDP students should take this non-credit bearing course to enhance their academic development.	
BIEN	-	-	Additional Req't	TEMG 3950		DDP students should take this 3-credit course to enhance their problem-solving skills.	
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.	
ECON/FINA/GBM/ MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011		COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010	
ECON/FINA/GBM/ MGMT/MARK	ISOM 2020	1		COMP 1021 OR COMP 1022P OR COMP 1029P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P, COMP1029P and COMP 2011 are more advanced coding courses as compared to ISOM 2020. Students should take one of these four COMP courses instead of ISOM 2020	
ECON/FINA/GBM/ MGMT/MARK		3	Substituted	LIFS 3150 OR MATH 2411	3 OR 4	ISOM 2500 and LIFS 3150 / MATH 2411 are mutual exclusions. To fulfill the HKIE engineering accreditation requirements, dual degree students should take LIFS 3150 / MATH 2411. (Students admitted via SBM could be considered of using ISOM 2500 to substitute LIFS 3150 / MATH 2411 upon individual case-by-case approval from Engineering department.)	
ECON/FINA/GBM/ MGMT/MARK	ISOM 2600	1	Substituted	BIEN3320	3	DDP students could learn similar analytical skills in BIEN3320.	

for Dual Degree Program

Degree Program 1: BSc in Biotechnology (BIOT)
Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

		nts specified for the program	Substituted/ Waived/	wa musiwa wa a wat			
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks	
ECON/FINA/GBM /MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students	
ВІОТ	SCIE 1000	0	Waived	-	-	[For non-SSCI year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Science students.	
BIOT	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development	
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development	
ВІОТ	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem- solving skills.	
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem- solving skills.	
ECON/FINA/GBM /MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010	
ECON/FINA/GBM /MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020	

for Dual Degree Program

Degree Program 1: BEng in Chemical Engineering (CENG)

Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

	Original requirements specified for the degree program		Substituted/ Waived/		stituted course/ rement		
Degree Program	Course code/ requirement	Credits		Course code/ requirement	Credits	Remarks	
ECON/FINA/GBM/ MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students	
CENG	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.	
CENG	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development	
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development	
CENG	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.	
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.	
ECON/FINA/GBM/ MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010	
ECON/FINA/GBM/ MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020	

for Dual Degree Program

Degree Program 1: BEng in Civil Engineering (CIVL)
Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

	Original requirements specified for the degree program		Substituted/ Waived/	na mulina ma ant		
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/FINA/GBM /MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
CIVL	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
CIVL	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
CIVL	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010
ECON/FINA/GBM /MGMT/MARK	ISOM 2500	3	Substituted	CIVL 2160	3	ISOM 2500 and CIVL 2160 are mutual exclusions. To fulfill the HKIE engineering accreditation requirements, dual degree students should take CIVL 2160. (Students admitted via SBM could be considered of using ISOM 2500 to substitute CIVL 2160 upon individual case-by-case approval from Engineering department.)
ECON/FINA/GBM /MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Computer Sciecne (COMP)
Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

BBA in Management (MGMT) OR

BBA in Marketing (MARK)

		nts specified for the program	Substituted/ Proposed substituted requirement			
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/		Remarks
ECON/FINA/GBM /MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
COMP	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
COMP	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
COMP	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P	3	COMP 1021 and COMP 1022P are more advanced computing courses as compared to ISOM 2010. Students should take one of these two COMP courses instead of ISOM 2010
ECON/FINA/GBM /MGMT/MARK	ISOM 2500	3	Substituted	MATH 2411	4	ISOM 2500 and MATH 2411 are mutual exclusions. To fulfill the HKIE engineering accreditation requirements, dual degree students should take MATH 2411. (Students admitted via SBM could be considered of using ISOM 2500 to substitute MATH 2411 upon individual case-by-case approval from Engineering department.)
ECON/FINA/GBM /MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Computer Engineering (CPEG)

Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

	•	nts specified for the program	Substituted/ Waived/ Additional		d course/ requirement	
Degree Program	Course code/ requirement	Credits	Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/FINA/GBM/ MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
CPEG	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
CPEG	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
CPEG	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM/ MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P	3	COMP 1021 and COMP 1022P are more advanced computing courses as compared to ISOM 2010. Students should take one of these two COMP courses instead of ISOM 2010
ECON/FINA/GBM/ MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Civil and Environmental Engineering (CIEV)

Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

	Original requirements spe prograr	•		Proposed substituted cours	se/	
Degree Program	Course code/ requirement	Credits	Substituted/ Waived/ Additional Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/FINA/GBM/ MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
CIVL	ENGG 1010	0	Waived	-	_	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
CIVL	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
CPEG	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem- solving skills.
ECON/FINA/GBM/ MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem- solving skills.
ECON/FINA/GBM/ MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011		COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010
ECON/FINA/GBM/ MGMT/MARK	ISOM 2500	3	Substituted	CIVL 2160	3	It is one-way exclusion for which ISOM 2500 excludes CIVL 2160. To fulfill the HKIE engineering accreditation requirements, dual degree students should take CIVL 2160. (Students admitted via SBM could be considered of using ISOM 2500 to substitute CIVL 2160 upon individual case-by-case approval from Engineering department.)
ECON/FINA/GBM/ MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P		COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Decision Analytics (DA)
Degree Program 2: BBA in Economics (ECON) OR

BBA in General Business Management (GBM) OR

BBA in Management (MGMT) OR

BBA in Marketing (MARK)

	Original requirements specified for the degree program		Substituted/ Waived/ Additional	Proposed substituted course/ requirement		
Degree Program	Course code/ requirement Credits		Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/GBM/MGMT /MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
DA	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
DA	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development.
ECON/GBM/MGMT /MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development.
DA	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/GBM/MGMT /MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/GBM/MGMT /MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010
ECON/GBM/MGMT /MARK	ISOM 2500	3	Substituted	IEDA 2540	3	It is one-way exclusion for which IEDA 2540 excludes ISOM 2500. To fulfill the HKIE engineering accreditation requirements, dual degree students should take IEDA 2540. (Students admitted via SBM could be considered of using ISOM 2500 to substitute IEDA 2540 upon individual case-by-case approval from Engineering department.)
ECON/GBM/MGMT /MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Electronic Engineering (ELEC)

Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

		uirements specified for the degree program Substituted/ Waived/ Additional Reg't/		ed course/ requirement		
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/FINA/GBM /MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
ELEC	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
ELEC	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ELEC	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P	3	COMP 1021 and COMP 1022P are more advanced computing courses as compared to ISOM 2010. Students should take one of these two COMP courses instead of ISOM 2010
ECON/FINA/GBM /MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Industrial Engineering and Engineering Management (IEEM)

Degree Program 2: BBA in Economics (ECON) OR

BBA in General Business Management (GBM) OR

BBA in Management (MGMT) OR

BBA in Marketing (MARK)

	•	nts specified for the program	Substituted/ Waived/	•	stituted course/ rement	
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/GBM/ MGMT/MAR K	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
IEEM	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
IEEM	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ECON/GBM/ MGMT/MAR K	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
IEEM	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/GBM/ MGMT/MAR K	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/GBM/ MGMT/MAR K	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010
ECON/GBM/ MGMT/MAR K	ISOM 2700	3	Substituted	IEDA 4100	3	ISOM 2700 and IEDA 4100 are mutual exclusions. ISOM 2700 should be substituted by IEDA 4100 to fulfill the HKIE engineering accreditation.
ECON/GBM/ MGMT/MAR K	ISOM 2500	3	Substituted	IEDA 2540	3	It is one-way exclusion for which IEDA 2540 excludes ISOM 2500. To fulfill the HKIE engineering accreditation requirements, dual degree students should take IEDA 2540. (Students admitted via SBM could be considered of using ISOM 2500 to substitute IEDA 2540 upon individual case-by-case approval from Engineering department.)
ECON/GBM/ MGMT/MAR K	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Mechanical Engineering (MECH)

Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

BBA in Management (MGMT) OR

BBA in Marketing (MARK)

		nts specified for the program	Substituted/ Waived/	•	stituted course/ rement	
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/FINA/GBM /MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
						[For non-SENG year 1 students admitted to T&M-DDP via School-based admission]
MECH	ENGG 1010	0	Substituted	SBMT 1111	0	DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
MECH	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
MECH	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
ECON/FINA/GBM /MGMT/MARK	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010
ECON/FINA/GBM /MGMT/MARK	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: BEng in Decision Analytics (DA)

Degree Program 2: BBA in Finance (FINA)

	Original requi specified for the progra	ne degree	Substituted/ Waived/ Additional	Proposed substituted course/ r	requirement	
Degree Program	Course code/ requirement	Credits	Req't/ Others	Course code/ requirement	Credits	Remarks
FINA	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
DA	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
DA	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development.
FINA	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development.
DA	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
FINA	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
FINA	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010
DA	IEDA 2540	3	Substituted	ISOM 2500	3	DDP students should take ISOM 2500 to allow themselves to complete FINA2303 before SBM major selection to fulfill the entry requirement of FINA.
FINA	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

for Dual Degree Program

Degree Program 1: Degree Program 2: BEng in Industrial Engineering and Engineering Management (IEEM)

BBA in Finance (FINA)

	•	nts specified for the program	Substituted/ Waived/	•	stituted course/ rement	
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks
FINA	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
IEEM	ENGG 1010	0	Waived	-	-	[For non-SENG year 1 students admitted to T&M-DDP via School-based admission] DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
IEEM	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
FINA	-	-	Additional Req't	TEMG 1010	0	DDP students should take this non-credit bearing course to enhance their academic development
IEEM	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
FINA	-	-	Additional Req't	TEMG 3950	3	DDP students should take this 3-credit course to enhance their problem-solving skills.
FINA	ISOM 2010	3	Substituted	COMP 1021 OR COMP 1022P OR COMP 2011	3 OR 4	COMP 1021, COMP 1022P and COMP 2011 are more advanced computing courses as compared to ISOM 2010. Students should take one of these three COMP courses instead of ISOM 2010
FINA	ISOM 2700	3	Substituted	IEDA 4100	3	ISOM 2700 and IEDA 4100 are mutual exclusions. ISOM 2700 should be substituted by IEDA 4100 to fulfill the HKIE engineering accreditation.
IEEM	IEDA 2540	3	Substituted	ISOM 2500	3	DDP students should take ISOM 2500 to allow themselves to complete FINA2303 before SBM major selection to fulfill the entry requirement of FINA.
FINA	ISOM 2020	1	Substituted	COMP 1021 OR COMP 1029P	1 OR 3	COMP 1021 COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

major

BEGBM (Via DDP PBA) 2020-21 Intake

Student's Pathway School: School of Engineering and School of Business Management Oual Degree Program (BEng in Bioengineering and BBA in General Business Management) rogram: Remarks ourse Code Course Title / Courses List refix) BEng in Bioengineering Major Requirements Engineering Fundamental Courses Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP10 ntroduction to Computer Science ntroduction to Computing with Java Python Programming Bridging Course Programming with C++ Newsonia Chiefothics Academic Orientation 1010 ote: CHEM1010 OR CHEM 1020 1010 3 3 eneral Chemistry IB aboratory for General Chemistry I CHEM 1050 LANG 2030 echnical Communication I 3 3 3 LIFS 1901 General Biology I 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND MATH 1014 OR MATH 1024)] OR [MATH 1020] 4-7 1012 1013 1014 1020 1023 Calculus IA Calculus IB 3 Calculus II ccelerated Calculus Honors Calculus I Ionors Calculus II lote: PHYS 1112 OR PHYS 1312 1112 1312 PHYS 3 3 3 PHYS Ionors General Physics I Engineering Introduction course (If the students take an introduction course included in their major, this ourse can be counted towards their major requirement.) (3) Required credits for Engineering Fundamental Courses 23-29 22 Major Required Courses and Electives Note: BIEN 1010 OR CENG 1000 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering 3 3 CENG BIEN 2310 Modeling for Chemical and Biological Engineering 3 3 3 BIEN 2410 cellular and Systems Physiology for Engineers 3 3 BIEN 2610 chemical Biology for Engineers 3 3 BIEN 2990 Academic and Professional Development I 3240 ransport Phenomena in Biological Systems 3 3 Data Science for Biology and Medicine BIEN 3320 3 3 BIEN 3410 ntroduction to Bioinstrumentation and Bioimaging 3 3 3 BIEN 3910 ioengineering Laboratory 4 4 4 Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 ioengineering Capstone Design ioengineering Thesis Research 6 3 4940 ioengineering Industrial Project 4990 cademic and Professional Development II CENG 2210 Chemical and Biological Engineering Thermodynamics 3 ENG 3230 emical and Biological Reaction Engineering ENGG 2010 Note: LIFS 3150 OR MATH 2411 3-4 150 3 3 Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should be at 4000-level) 4035 SCI/SENG 15 3 15 Required credits for Major Required Courses and Electives 60-61 60 **BBA in General Business Management** School Requirements 2010 Principles of Accounting I 3 3 ACCT 2200 inciples of Accounting II 3 3 3 Note: ECON 2103 OR ECON 2113 3 3 CON 113 lote: ECON 2123 OR ECON 3123 CON 2123 3 acroeconomic Theory I INA 2303 inancial Management 3 3 SOM 2010 ntroduction to Information Systems 3 0 SOM 2020 oding for Business SOM 2500 Business Statistics 3 0 LIFS 3150/MATH 2411 2600 roduction to Business Analytics BIEN3320 ISOM 2700 Operations Management 3 3 3 MARK 2120 Marketing Management 3 MGMT 2010 Business Ethics and the Individual MGMT 2110 Organizational Behavior MGMT 2130 Business Ethics and Social Responsibility 2 2 2 Substituted by ENGG 1010 вмт 1111 Business Student Induction 0 0 LABU 2040 usiness Case Analyses 3 3 3 LABU 2060 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 alculus and Linear Algebra 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy 1012 1013 (3) 0 alculus IB quirements of both BEng and BBA degrees Ionors Calculus I Required credits for School Requirements 43-44 34 Major Requirements Major Required Courses and Electives es offered by the departments under SB&M, of which at least 4 co 29 Required credits for Major Required Courses and Electives 29 Additional Requirements Requirements for Dual Degree Program Required Courses 1010 echnology and Management Professional Activities TEMG 3950 Case-based Problem Solving 3 3 Required credits for Additional Requirements **University CORE** J CORE - Others C3 - C12 30 30 C1 & C2 J CORE - English Language 6 Sub-total for University CORE 36 36 18 184## << Declaration of BBA major << Declaration of BEng Notes

() indicates the reuse of the same course to fulfill more than one requirer

--- denotes the course/requirement is either waived or substitued

To graduate, students should complete all requirements specified for DDP

>> 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

The Hong Kong University of Science and Technology Interdisciplinary Programs Office

An Example on Student's Pathway

BTGBM 2020-21 Intake (Via DDP PBA)

BEng major School of Science and School of Business Management oual Degree Program (BSc in Biotechnology and BBA in General Business lanagement) ogram: Year Remarks Course Title / Courses List BSc in Biotechnology **School Requirements** ote: COMP1021 OR COMP1022P OR COMP2011 troduction to Computer Science troduction to Computing with Java rogramming with C++ This course will be used to substitute ISOM 2010 3 1022P Programming with C++
English for Science I cience Foundation courses [8 courses from the specified elective list. Students should ta 22-25 i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 ecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laboratory 1050 1055 1030 Environmental Science Environmental Science
General Biology I®
General Biology II®
Laboratory for General Biology I
Laboratory for General Biology II
Nature of Life Sciences 1901° 1902® 1903 1904 1930 2210 LIFS1901 & LIFS1902 are Major LIFS LIFS CHEM1010, CHEM1030, IFS1903 and MATH1013 to satist the requirements of both SSCI School requirements and Major requirements 10 6 22 1012 1013 1014 1020 1023 1024 2023 2121 2131 Calculus IB Calculus II MATH MATH 1001 Physics and the Modern Society Seneral Physics I Seneral Physics I with Calculus 1113 1114 1115 1312 aboratory for General Physics I seneral Physics II aboratory for General Physics II lonors General Physics I lonors General Physics II Required credits for School / Major Pre-requisite Requirements 25-29 Major Requirements Major Required Courses and Electives Laboratory for General Biology I aboratory for General Biology II ell Biology roduction to Biotechnology ant Biology ochemistry I (3) 0 icrobiology 3110 iotechnological Application of Recombinant DNA Techniques LIFS 3140 General Genetics 4 4 ant Biotechnology LIFS 4200 oncepts and Issues in Contemporary Biotechnology ote: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) 3 Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the equirement.] Biotechnology Capstone Project 4963 4973 4983 [3] 3 3 Biotechnology Project Research I Biotechnology Project Research II RE Research Project II Note: CHEM1010 OR CHEM1020 0 1010 Seneral Chemistry IA Seneral Chemistry IB (3) HEM (3) HEM aboratory for General Chemistry I HEM 3 3 1 indamental Organic Chemistry Laboratory indamental Analytical Chemistry Laboratory CHEM 3 otechnology Electives (Courses from the specified elective list; Students following IRE rack are required to take a minimum of 15 credits; while others a minimum of 18 credits LIFS/BIPH/BTEC/BIEN 15-18 6 15 CENG ourses taken as Major/Track Required Courses may not be counted towards the elective Required credits for Major Required Courses and Electives 62-70 BBA in General Business Management School Requirements lote: ECON 2103 OR ECON 2113 3 3 ECON **ECON** 2113 te: ECON 2123 OR ECON 3123 2123 3 3 ECON 3 ECON facroeconomic Theory 2303 nancial Management 3 SOM 2010 oding for Business ISOM 2500 usiness Statistics 3 ISOM troduction to Business Analytics ISOM 3 MARK Marketing Management 3 3 MGMT 2110 rganizational Behavior usiness Ethics and Social Responsibility siness Student Induction 0 siness 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 Zalculus IA Calculus IB DDP students should take MATH 013 OR MATH 1023 to satisfy th (3) nents of both BSc and BB. ccelerated Calculus degrees lonors Calculus I Required credits for School Requirements 43-44 39 Major Requirements Major Required Courses and Electives SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least courses are of 3000-level or above.) 29 SB&M Required credits for Major Required Courses and Electives 29 **Additional Requirements** Requirements for Dual Degree Program Required EMG Required credits for Additional Requirements University CORE J CORE - Others J CORE - English Language Sub-total for University CORE 36

17 19 18 21 20 20 20 19 18 19

191##

< Declaration of

< Declaration of

BBA major

BEng major

Notes:

@ Course that students need to complete before enrolling into respective major/programs

() indicates the reuse of the same course to fulfill more than one requirement.
[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office

{} indicates the course overlapping with another requirement will not be necessarily counted towards the School Requirements. — denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

CEGBM 2020-21 Intake

An Example on Student's Pathway << Declaration of << Declaration of

BEng major BBA major Student's Pathway School: School of Engineering and School of Business Management Dual Degree Program (BEng in Chemical Engineering and BBA in General rogram Business Management) rear 3 Spring Remarks Offering Dept. Course Code Course Title / Courses List course code prefix) BEng in Chemical Engineering **Major Requirements Engineering Fundamental Courses** Note: COMP 1021 OR COMP 1022P OR COMP 2011 ntroduction to Computer Science This course will also be used to substitute ISOM 2010 OMP ntroduction to Computing with Java 1022P OMP 2011 Programming with C++ ENGG 1010 Academic Orientation 0 0 0 0 Note: CHEM1010 OR CHEM1020 HEM 1010 3 3 Technical Communication I

Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND ANG 2030 3 3 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] 1013 MATH Calculus IB 3 3 6 MATH 1014 Calculus II иать 1020 accelerated Calculus MATH 1024 Honors Calculus II ЛАТН Introduction to Multivariable Calculus 3 3 Note: PHYS 1112 OR PHYS 1312 1112 General Physics I with Calculus Honors General Physics I PHYS 3 3 3 Required credits for Engineering Fundamental Courses 19-23 21 Major Required Courses and Electives Note: CENG1000 OR CENG1500 CENG 1000 Introduction to Chemical and Biological Engineering 3 ENG 1500 A First Course on Materials Science and Application lote: CENG1600 OR CENG1700 OR BIEN1010 1600 CENG Biotechnology and Its Business Opportunities 3 3 CENG 1700 Introduction to Environmental Engineering ntroduction to Biomedical Engineering ENG 1010 Academic and Professional Development I 0 0 ENG Industrial Training 0 0 CENG rocess and Product Design Principles 3 ENG Chemical and Biological Engineering Thermodynamic 3 3 CENG rocess Fluid Mechanics 3 ENG Modeling for Chemical and Biological Engineering CENG rocess Dynamics and Contro ENG Integrated Chemical Process & Product Design 5 CENG Separation Processes ENG Heat and Mass Transfer 3 3 ENG 3230 Chemical and Biological Reaction Engineering 3 ENG Chemical and Environment Engineering Laboratory 4 4 CENG Academic and Professional Development II 0 Note: CENG4920 OR CENG4930 OR CENG494 CENG 4920 Chemical Engineering Capstone Design 6 ENG 4930 Chemical Engineering Thesis Research Chemical Engineering Industrial Project Engineering Seminar Series NGG 2010 0 0 0 0 0 0 НЕМ 1050 Laboratory for General Chemistry I 1 1 Fundamentals of Organic Chemistry СНЕМ 2111 3 3 3 СНЕМ 2155 Fundamental Organic Chemistry Laboratory 1 1 1 ANG 4035 Technical Communication II for Chemical and Biological Engineering 3 3 3 Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers Chemical Biology for Engineers BIEN 2410 3 3 3 1901 General Biology I SENG/SSCI/ENVR CENG Elective (12 credits from specified elective list) 12 12 Required credits for Major Requirements Courses and Electives 68 68 **BBA in General Business Management School Requirements** rinciples of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics 3 3 CON 2113 Note: ECON 2123 OR ECON 3123 3 **ECON** 3123 Macroeconomic Theory I INA 2303 Financial Management 3 Substituted by COMP SOM 2010 ntroduction to Information Systems 3 0 SOM Coding for Business SOM **Business Statistics** 2500 3 SOM 2600 Introduction to Business Analytics SOM 2700 Operations Management 3 3 MARK 2120 Marketing Management 3 Business Ethics and the Individual MGM 2010 2 MGM 2110 Organizational Behavior MGM Business Ethics and Social Responsibility 2130 SBMT Business Student Induction Waived for DDP students 1111 LABU 2040 **Business Case Analyses** 3 Effective Communication in Business LABU 2060 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 ИАТН 1003 Calculus and Linear Algebra 012 or MATH 1013 or MATH 1020 MATH 1012 Calculus IA (3) 0 or MATH 1023 to satisfy the Calculus IB ents of both BEng and BBA degrees MATH Honors Calculus I Required credits for School Requirements 45-46 Major Requirements Major Required Courses and Electives SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at 29 10 29 SB&M 9 least 4 courses are of 3000-level or above Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities 3950 Required credits for Additional Requirements University CORE C3 - C12 U CORE - Others 30 30 C1 & C2 U CORE - English Language 6 6 Sub-total for University CORE 36 36 18 19 21 19 20 19 21 21 19

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.

<< Declaration of << Declaration of BEng major BBA major

The Hong Kong University of Science and Technology CIGBM 2020-21 Intake **Interdisciplinary Programs Office** (Via DDP PBA) An Example on Student's Pathway << Declaration of BEng major BBA major BEng major School: School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Civil Engineering and BBA in General Business rogram Remarks Offering Dept Course Code Course Title / Courses List course code prefix) BEng in Civil Engineering **Major Requirements Engineering Fundamental Courses** Note: COMP 1021 OR COMP 1022P OR COMP 2011 ntroduction to Computer Science This course will also be used to substitute ISOM 2010 3 OMP 1022P ntroduction to Computing with Java OMP 2011 Programming with C++ ENGG 1010 Academic Orientation 0 0 0 0 Note: CHEM 1010 OR CHEM 1020 1010 General Chemistry IA 3 HEM 3 eneral Chemistry IB Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND LANG 2030 3 3 (MATH 1014 OR MATH 1024)] OR [MATH 1020] ИАТН 1012 Calculus IA MATH Calculus IB 3 6 Accelerated Calculus MATH MATH 1023 Honors Calculus I lonors Calculus II MATH Introduction to Multivariable Calculus 3 3 Applied Linear Algebra and Differential Equations MATH 2350 3 3 3 PHYS 1112 3 3 3 General Physics I with Calculus HYS 1312 Required credits for Engineering Fundamental Courses 22-26 24 Major Required Courses and Electives 1010 CIVL Academic Professional Development I 0 0 Discovering Civil and Environmental Engineering 3 3 2010 Academic Professional Development II 0 0 IVL IVL 2020 Industrial and BIM Training 0 0 IVL 110 Statics 3 CIVL 2120 Mechanics of Materials 3 3 This course will also be used to IVL 2160 Modeling Systems with Uncertainties 3 3 3 substitute ISOM 2500 CIVL 2170 Infrastructure Systems Engineering and Management 3 3 IVL 2410 Environmental Assessment and Management 3 3 IVL 2510 Fluid Mechanics 3 3 IVL Construction Materials 3 3 IVL 3010 Academic Professional Development III 0 0 IVL 3020 Internship Training 0 0^ 0 3210 Introduction to Construction Management 3 3 IVL 3320 Reinforced Concrete Design 3 3 3 -lydrosystems Engineering 3510 3 3 CIVL 3610 Traffic and Transportation Engineering 3 3 3 CIVL 3730 Fundamentals of Geotechnics 3 3 Geotechnical Analysis and Design IVL 3740 3 3 Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Projec Civil and Environmental Engineering Final Year Thesis IVL 4910 6 3 3 6 4920 CIVL 1950 Civil Engineering Capstone Design Project IVL 3 ENGG 2010 Engineering Seminar Series 0 0 0 0 0 0 LANG 4033 Technical Communication II for Civil and Environmental Engineering 3 3 3 CIVL Electives (3 courses from the specified elective list) CIVL: Any CIVL courses at 4000-level or above except CIVL 4230 SENG: Any 3000-level or above courses offered by the Engineering School or CIVL/SENG 3 engineering departments other than CIVL Required credits for Major Requirements Courses and Electives 66 **BBA** in General Business Management **School Requirements** rinciples of Accounting I Principles of Accounting II 2200 3 Note: ECON 2103 OR ECON 2113 ECON ECON 2103 2113 Principles of Microeconomics 3 3 3 Note: ECON 2123 OR ECON 3123 CON 2123 3 3 Macroeconomic Theory I CON INA 2303 Financial Management 3 3 SOM 2010 Introduction to Information Systems 3 0 Substituted by COMP 1021/1022P SOM 2020 Coding for Business 1 SOM 2500 Business Statistics 3 0 Substituted by CIVL 2160 SOM 2600 Introduction to Business Analytics 1 1 1 SOM 2700 Operations Management 3 3 3 MARK 2120 Marketing Management 3 3 3 MGMT Business Ethics and the Individual 2010 2 2 MGM 2110 Organizational Behavior 3 MGMT Business Ethics and Social Responsibility 2130 2 Waived for DDP students SBMT 1111 Business Student Induction 0 0 ABU Business Case Analyses 2040 ABU 2060 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH ИΑТН 1003 Calculus and Linear Algebra **MATH** 1012 Calculus IA (3) 0 or MATH 1023 to satisfy the MATH 1013 Calculus IB requirements of both BEng and accelerated Calculus BBA degrees Required credits for School Requirements 43-44 36 **Major Requirements**

Major Required Courses and Electives Required credits for Major Required Courses and Electives

Additional Requirements

Requirer	nents for Dual	Degree Program	•	•		•	•			•			•	•	•
Required C	ourses					_		_							
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving	3		3	ĺ		Ī						3	
		Required credits for Additional Requireme	ents 3					:						3	
Universit	ty CORE														
CORE	C3 - C12	U CORE - Others	30	6		3		3	3	6	6		3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3	i		i						6	
		Sub-total for University CC	ORE 36			i								36	

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Notes

() indicates the reuse of the same course to fulfill more than one requirement.

<< Declaration of << Declaration of BEng major BBA major

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Term load (excl. free credits)

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^{*} 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.

The Hong Kong University of Science and Technology **Interdisciplinary Programs Office**

An Example on Student's Pathway

COGBM 2020-21 Intake

<< Declaration of BEng major BBA major

School of Engineering and School of Business Management Student's Pathway School: Dual Degree Program (BEng in Computer Science and BBA in General Business rogram Management) Remarks ear 3 Spring Course Title / Courses List Course Code course code prefix) **BEng in Computer Science Major Requirements** Engineering Fundamental Courses Note: COMP1021 OR COMP1022F introduction to Computer Science This course will also be used to substitute ISOM 2010 COMP 1022P Introduction to Computing with Java NGG 0 Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312 Chemistry in Everyday Life HEM 1010 General Chemistry IA General Chemistry IR HEM 1020 3 General Physics I with Calculus PHYS 1112 onors General Physics I Technical Communication I LANG Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH MATH 3 Accelerated Calculus MATH 1023 Honors Calculus I ИТА Matrix Algebra and Applications 3 3 3 Engineering Introduction course (COMP students may also use COMP1022P or 3-4 (3) 0 SENG Required credits for Engineering Fundamental Courses 19-23 Major Required Courses and Electives Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++ Object-Oriented Programming and Data Structures OMP OMP 2012H lonors Object-Oriented Programming and Data Structures OME Computer Organization Note: COMP2711 OR COMP2711H 2711 OMP Discrete Mathematical Tools for Computer Science lonors Discrete Mathematical Tools for Computer Sci Note: COMP3111 OR COMP3111H 4 OMP 3111 Ionors Software Engineering OMP 3511 Operating Systems 3 3 3 Note: COMP3711 OR COMP3711H 3-4 Design and Analysis of Algorithms Honors Design and Analysis of Algorithms 3 OMF Note: Students are required to take COMP4900 for every regular term in which they are in residency at HKUST with major in COMP 0 0 0 0 0 0 0 Academic and Professional Development

Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910 OMF 4900 0 OMP Industrial Experience OMP 4981 Final Year Project 3 4981H Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431 3-4 Probability and Random Processes in Engir Probability for Engineers FLEC 2600 IEDA IEDA Statistics for Engineers which will also be used to substitu ИАТН 2411 Applied Statistics ISOM 2500 Probability иатн ИΑТН Honors Probability ENGG 2010 Engineering Seminar Series 0 0 0 0 0 0 ANG 4030 Technical Communication II for CSE & CPEG 3 3 3 COMP Electives (5 courses from the specified elective list, of which at least 3 courses 15 3 6 3 3 15 OMP should be taken from 1 area and at least 2 courses outside that area.) OMP COMP Elective (Any 1 course offered under COMP) 3 Required credits for Major Requirements Courses and Electives 53-58 57 **BBA in General Business Management School Requirements** ACCT Principles of Accounting I ACCT Principles of Accounting II 3 Note: ECON 2103 OR ECON 2113 CON 2103 Principles of Microeconomics 3 3 Note: ECON 2123 OR ECON 3123 CON 2123 3 3 3 acroeconomic Theory I INA 2303 Financial Management 3 SOM ntroduction to Information Systems 3 Substituted by COMP 1021/1022P SOM 2020 oding for Business SOM 2500 Business Statistics 3 0 Substituted by MATH 2411 SOM 2600 Introduction to Business Analytics Operations Management SOM 2700 3 MARK 120 Marketing Management 3 3 MGM 2010 Business Ethics and the Individual 2 MGMT 110 organizational Behavior 3 MGMT 2130 Business Ethics and Social Responsibility 2 SBMT Business Student Induction 0 0 Waived for DDP students LABU 2040 Business Case Analyses 3 3 3 .ABU 2060 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 3 1012 or MATH 1013 or MATH 1020 MATH 1012 Calculus IA (3) or MATH 1023 to satisfy the MATH 1013 Calculus IB ents of both BEng and BBA degrees Honors Calculus I MATH Required credits for School Requirements Major Requirements Major Required Courses and Electives

| SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Course Technology and Management Professional Activities EMG Required credits for Additional Requirements University CORE U CORE - Others 30 ORE C1 & C2 U CORE - English Language 6 6 Sub-total for University CORE 36 36 m load (excl. free credits) 18 18 19 18 20 19 17 18 16 179## << Declaration of << Declaration of Notes BEng major BBA major

() indicates the reuse of the same course to fulfill more than one requirement.

- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as spe-

CPGBM 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management				BEng ma		BBA maj		Studer	nt's Pathwa	ay			<u> </u>
Program:		Dual Degree Program (BEng in Computer Engineering and BBA in General Business Management)	ıl												
Course Offering Dept. course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Sprir	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Sprin	Sub-total	Remarks
BEng in Co	mputer Eng	jineering		I	gı		Q		g		g		- Bu		
/lajor Require	ements														
OMP	damental Courses	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3		·		i						3	This course will also be used to
COMP ENGG	1022P 1010	Introduction to Computing with Java Academic Orientation	3	0	0	<u> </u>		<u> </u>						0	substitute ISOM 2010
_ANG	2030	Technical Communication I	3			<u> </u>	3	<u> </u>						3	
MATH	1012	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4-7			ļ		!							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	į		į						6	
MATH MATH	1020 1023 1024	Accelerated Calculus Honors Calculus I Honors Calculus II	4 3 3			İ		Ī :							
MATH MATH	2011	Introduction to Multivariable Calculus	3			<u> </u>		3						3	
MATH	2111	Matrix Algebra and Applications Note: PHYS1112 OR PHYS1312	3			•		3						3	
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3	3		!		!						3	
PHYS PHYS	1114 1314	Note: PHYS1114 OR PHYS1314 General Physics II Honors General Physics II	3			į		į	3					3	
SENG	1314	Engineering Introduction course (If the students take an introduction course included in their	-	(3)		<u> </u>		<u> </u>						0	
		major, this course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses	25-29			 		<u> </u>						24	
Major Required C	Courses and Elect	Lives Academic and Professional Development I	0			. 0	0	!						0	<u> </u>
CPEG	3930	Academic and Professional Development II Note: (COMP2011 AND COMP2012) OR COMP2012H	0 5-8			<u>1</u>		0	0					0	
COMP	2011 2012	Programming with C++ Object-Oriented Programming and Data Structures	4 4			4		4						8	
COMP	2012H	Honors Object-Oriented Programming and Data Structures Note: COMP2611 OR ELEC2350	5 4	}		!	-	!							+
COMP ELEC	2611 2350	Computer Organization Introduction to Computer Organization and Design	4 4			!	4	!						4	
COMP COMP	2711 2711H	Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Science	4 4 4			į		į		4				4	
ELEC COMP	2711H 2600 3511	Honors Discrete Mathematical Lools for Computer Science Probability and Random Processes in Engineering Operating Systems	4 4 3	1	1	<u>i</u>		<u>į </u>			3			3	
COMP	4521	Operating Systems Note: COMP4521 OR COMP4611 OR ELEC 4310 Mobile Application Development	3-4 3	1		! 		I İ							
COMP ELEC	4611 4310	Design and Analysis of Computer Architectures Embedded System Design	3 4			į		į				3		3	
ELEC ELEC	4320 4330	FPGA-based Design: From Theory to Practice Mobile Embedded Systems: Hardware Platform, Software Development, and Applications	3 3			ļ		<u> </u>							
ODEO	4074	Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) AND CPEG1971] OR CPEG4910	6			! Î		! 							
CPEG CPEG CPEG	1971 4901 4902	Industrial Experience Computer Engineering Final Year Project in COMP Computer Engineering Final Year Thesis in COMP	0 6 6			į		į				3	3	6	
CPEG CPEG	4911 4912	Computer Engineering Final Year Project in ELEC Computer Engineering Final Year Thesis in ELEC	6			! :		!							
CPEG ELEC	4910	Co-op Program Introduction to Electro-Robot Design	6 4			4		<u>!</u> !						4	
ELEC ELEC	1100	Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets	8 4			<u>i</u>		† 							-
ELEC ELEC	2100 2400	Signals and Systems Electronic Circuits	4] :	4	! :	4					8	
ELEC ENGG	3300 2010	Introduction to Embedded Systems Engineering Seminar Series	4			0	0	0	0		4			4	
LANG	4030	Note: LANG4030 OR LANG4031 Technical Communication II for CSE & CPEG	3			•		•				3		3	
LANG	4031	Technical Communication II for ECE & CPEG Area Courses (At least 4 courses from the specified elective list, of which at least 2	3			<u> </u>		<u> </u> 							
COMP/ELEC		courses should be taken from one single area and at least 2 courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective requirement.)	15			3		į			4	4	4	15	
DD4: 0		equired credits for Major Requirements Courses and Electives	59-63]		Ī						62	
School Requi		ess Management													
ACCT	2010	Principles of Accounting I	3			3		<u>į </u>						3	
ACCT	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3			<u> </u>		<u> </u>	3					3	
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123	3		3	<u> </u>		<u> </u>						3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3			į		3						3	
FINA ISOM	2303	Financial Management	3			<u> </u>	3	 						3	Cubatitute d bu COMP 4004/4000
ISOM	2020	Introduction to Information Systems Coding for Business	1			į		1						1	Substituted by COMP 1021/1022F
ISOM ISOM	2500 2600	Business Statistics Introduction to Business Analytics	3			3		1						3	
ISOM MARK	2700 2120	Operations Management Marketing Management	3			! !	3	! 	3					3	
MGMT MGMT	2010 2110	Business Ethics and the Individual	2		3	<u> </u>		2						2	
MGMT	2130	Organizational Behavior Business Ethics and Social Responsibility	2			!		!					2	2	
SBMT LABU	1111 2040	Business Student Induction Business Case Analyses	0			i	3							3	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 3-4			<u> </u>		<u> </u>	3					3	
MATH MATH	1003 1012	Calculus and Linear Algebra Calculus IA	3 4	(3)		! i		! i						0	DDP students should take MATH 10 or MATH 1013 or MATH 1020 or MA
MATH MATH	1013 1020	Calculus IB Accelerated Calculus	3 4	(3)		į		į							1023 to satisfy the requirements of be BEng and BBA degrees
MATH	1023	Honors Calculus Required credits for School Requirements	3 43-44	\dagger		!		İ						39	
Major Required C		iives													
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29			<u>i</u>	L	3	3	7	3	3	10	29	
Additional F	Doguiroro -	Required credits for Major Required Courses and Electives	29			<u> </u>		İ						29	
Additional F Requirements															
Required Courses	s		1 ^	Π ^	1 ^		I ^	1 0							
TEMG TEMG	1010 3950	Technology and Management Professional Activities Case-based Problem Solving	3	0	3	0	0	0	0	0	0	0	0	3	
University CO)RE	Required credits for Additional Requirements	3	1	<u> </u>		L	!				L	L	3	
CORE	C3 - C12	U CORE - Others	30	6	3	3		Ţ		9	6	3		30	Ţ
CORE	C1 & C2	U CORE - English Language Sub-total for University CORE	6 36	3	3	<u> </u>		<u> </u>						6 36	<u> </u>
			_	18	18	20		erm load (ex	cl. free cred	lits)	20	19	19		
							l.	19	3##	1 20		1 10	1 10	1	
Notes:	e of the same course i	to fulfill more than one requirement.		18	18	20 << Decla BEng ma	20 ration of	20	19 3## ration of		20	19	19		

^() indicates the reuse of the same course to fulfill more than one requirement.

⁻⁻⁻ denotes the course/requirement is either waived or substituted
To graduate, students should complete all requirements as specified for DDP.

>> 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.

CVGBM (Via DDP PBA) 2020-21 Intake

<< Declaration of BEng major BBA major

School: Program:						BEng ma	ijor	BBA maj	OI .						
rogram:		School of Engineering and School of Business Management Dual Degree Program (BEng in Civil and Environmental Engineering and	RBA in							Stud	ent's Pathy	vay			
		General Business Management)	DDA III												
ourse ffering Dept. ourse 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 Civ	il and Envir	onmental Engineering		_	Bu		Bı		Bu	_	Bı	_	Bu		
lajor Require		Official Engineering													
ngineering Fund	lamental Courses	Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4	ı		i		i		I	ı		1	I	T
OMP OMP	1021 1022P	Introduction to Computer Science Introduction to Computing with Java	3		3	: 		: 						3	This course will also be use substitute ISOM 2010
OMP	2011	Programming with C++ Academic Orientation	4			: 		: 							Substitute IOOM 2010
NGG	1010	Note: CHEM 1010 OR CHEM 1020	0	0	0	i		i						0	
HEM HEM	1010 1020	General Chemistry IA General Chemistry IB	3	3		<u>i</u>		<u>i</u>						3	
ANG	2030	Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	3 4-7			<u> </u>		3						3	
IATH	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4			! :		! !							
IATH IATH	1013 1014	Calculus IB Calculus II	3	3	3	: 		: 						6	
IATH IATH IATH	1020 1023 1024	Accelerated Calculus Honors Calculus I Honors Calculus II	3			į		į							
MATH	2011	Introduction to Multivariable Calculus	3			3		<u> </u>						3	
MATH	2350	Applied Linear Algebra and Differential Equations Note: PHYS 1112 OR PHYS 1312	3			3		! 						3	
HYS HYS	1112 1312	General Physics I with Calculus Honors General Physics I	3 3	3										3	
Azior Required Co	ourses and Electi	Required credits for Engineering Fundamental Courses	S 22-26			<u>!</u>		<u>. </u>						24	
IVĹ	1010	Academic Professional Development I	0			0	0	j						0	
IVL IVL	1100 2010	Discovering Civil and Environmental Engineering Academic Professional Development II	3	-	3	! 		0	0				-	3	
IVL	2020	Industrial and BIM Training	0			0*	0	<u> </u>						0	
IVL IVL	2110 2120	Statics Mechanics of Materials	3			3	3	<u> </u>						3	
IVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be use substitute ISOM 2500
IVL	2170 2410	Infrastructure Systems Engineering and Management Environmental Assessment and Management	3	-		:	3	:						3	
IVL	2510	Fluid Mechanics	3			<u>i </u>	3	<u>i </u>						3	
IVL	2810 3010	Construction Materials Academic Professional Development III	0	1		!		3		0	0			3 0	
CIVL	3020	Internship Training Note: CIVL3210 OR CIVL3610	0			-		-			0^			0	
CIVL	3210 3610	Introduction to Construction Management Traffic and Transportation Engineering	3			! :		! :	3					3	
IVL	3310 3320	Structural Analysis Reinforced Concrete Design	3			•		3	3					3	
IVL	3420	Water and Wastewater Engineering	3			<u> </u>		<u> </u>	3					3	
IVL IVL	3510 3730	Hydrosystems Engineering Fundamentals of Geotechnics	3			<u> </u>		3		3				3	
IVL	3740	Geotechnical Analysis and Design	3								3			3	
IVL	4910	Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project	6			ļ		ļ				3	3	6	
CIVL	4920 4950	Civil and Environmental Engineering Final Year Thesis Civil Engineering Capstone Design Project	3			<u>!</u>		<u>!</u>				3		3	
CIVL	4450	Note: CIVL4450 OR CIVL 5450 OR CIVL5460 Carbon Footprint Analysis and Reduction	3			<u> </u>		<u> </u>			_			_	
CIVL	5450 5460	Hazardous Waste Treatment and Site Remediation Landfill Engineering and Design	3			i		i			3			3	
NGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
ANG	4033	Technical Communication II for Civil and Environmental Engineering CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted"	3 d			<u> </u>		<u> </u>				3		3	
		Electives".]				İ		ļ							
CIVL/SENG		Restricted electives: at least 1 course AND (CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted	6] :] :				3	3	6	
		Electives" from the list OR SENG: Any 3000-level or above courses offered by the Engineering School or				! :] 							
	Re	engineering departments other than CIVL) equired credits for Major Requirements Courses and Electives	S 66			: !		: 						66	
	eral Busine	aa Managamant													
		ss management													
School Requir				11		2	1	1	1					1 2	T
School Requi	2010 2200	Principles of Accounting I Principles of Accounting II	3			3			3					3	
School Requirect CCT CCT CON	2010 2200 2103	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			3		 	3						
School Requi CCT CCT CON CON	2010 2200 2103 2113	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123	3 3 3						3					3	
School Requirect CCT CCON CCON CCON CCON	2010 2200 2103 2113 2123 3123	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3 3 3					3	3					3 3	
School Requirements CCT CCT CON CON CON CON CON	2010 2200 2103 2113 2123 3123 2303	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomics Macroeconomics Macroeconomic Theory I Financial Management	3 3 3 3 3 3			3	3	<u> </u>						3 3 3	Substituted by COMP
School Requirements CCT CCT CCON CCON CCON CCON CCON INA	2010 2200 2103 2113 2123 3123	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3 3 3				3	3	3					3 3	Substituted by COMP 1021/1022P/2011
School Require CCT CCT CON CON CON CON CON SON SOM SOM	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics	3 3 3 3 3 3			3	1							3 3 3 0 1	1021/1022P/2011
School Require CCT CCT CON CON CON CON CON SOM SOM SOM SOM SOM	2010 2200 2103 2113 2123 33123 2203 2010	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business	3 3 3 3 3 3 3		1	3								3 3 3 0	1021/1022P/2011
School Requirect CCT CCON CCON CCON CCON CCON CCON CCON	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500 2700 2120	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Marketing Management	3 3 3 3 3 3 3 1 1 3 1 3 3		1									3 3 3 0 1 0 1 3 3	1021/1022P/2011
School Requirement of the control of	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500 2600 2700 2110 2010 2010 2010 2010 2010 20	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics 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 3 3 3 1 1 3 1 1 3 3 2 2 3		1	3								3 3 3 0 11 0 11 3 3 2 3	1021/1022P/2011
School Requise CCT CCT CON CON CON CON CON SOM SOM SOM SOM SOM SOM SOM SOM SOM SOM	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500 2600 2700 21120 2010	Principles of Accounting I Principles of Accounting I Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics More: ECON 2123 OR ECON 3123 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	3 3 3 3 3 3 3 1 1 3 1 1 3 3 2		1									3 3 3 0 1 0 1 3 3 2	1021/1022P/2011 Substituted by CIVL 216
School Requin	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500 2600 2700 2120 2010 2110 2130 11111 2040	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Microeconomics Macroeconomics 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 Student Induction Business Student Induction Business Student Induction Business Stadent Induction Business Case Analyses	3 3 3 3 3 3 1 1 3 3 1 1 3 3 2 2 0 3		3		3	1			2			3 3 3 0 1 0 1 3 3 3 2 3 2 0 3 3 3	1021/1022P/2011 Substituted by CIVL 216
School Requin	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500 2700 2120 2010 2110 2130 1111 2040 2060	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Microeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Business Statistics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction 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	3 3 3 3 3 3 1 1 3 3 1 2 2 0 3 3 3		3		3	1			2			3 3 3 0 11 0 11 3 3 2 0 2 0 0	Substituted by CIVL 216 Substituted by ENGG 10
School Required CCT CCON CCON CCON CCON CCON CCON CCON CCON	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500 2600 2700 2110 2110 2130 1111 2130 1111 2040 2060	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Macroeconomics Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction 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 Induction	3 3 3 3 3 3 3 1 1 3 3 1 3 2 2 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		3		3	1			2			3 3 3 0 1 0 1 3 3 3 2 3 2 0 3 3 3	Substituted by CIVL 216 Substituted by ENGG 10: Substituted by ENGG 10: DDP students should take M 1012 or MATH 1013 or MATH
School Requirement of the control of	2010 2200 2103 2113 2123 3123 2303 2010 2020 2500 2600 2700 2110 2130 1111 2040 2060 1003 1012 1013	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Macroeconomics Macroeconomics Macroeconomic Macroeconomic Macroeconomic Macroeconomic Macroeconomic Intended 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 Statent Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus IA Calculus IA Accelerated Calculus	3 3 3 3 3 3 1 1 3 1 3 2 2 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		3		3	1			2			3 3 3 0 1 1 0 1 1 3 3 2 2 0 3 2 0 3 3	Substituted by CIVL 216 Substituted by ENGG 10 Substituted by ENGG 10 DDP students should take M
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School Require CCT CCON CCON CCON CCON CON CON NA COM COM COM COM COM COM COM COM COM COM	2010 2200 2103 2113 2123 2303 2010 2020 2500 2600 2700 2110 2110 2110 2110 2130 1101 2040 2060 1003 1012 1023 20ments ourses and Electi	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Microeconomics Macroeconomics 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 Ethics and Social Responsibility Business Statistent Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus IA Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirement: Ves SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required credits for Major Required Courses and Elective: 15	3 3 3 3 3 3 1 1 3 1 1 3 2 3 2 0 0 3 3 3 4 4 4 4 3 4 5 4 4 4 4 3 4 4 4 4 4		3		3	1	3	3	2		3	3 3 3 3 0 1 0 1 0 1 3 3 2 3 2 3 0 3 3 0 3 2 2 3 2 2 3 2 2 3 2 3	Substituted by CIVL 216 Substituted by CIVL 216 Substituted by ENGG 10 DDP students should take N 1012 or MATH 1013 or sMATH or MATH 1023 to satisfy trequirements of both BEng
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School Require CCT CCT CCT CCN CCN CCN CCN CCN CCN CCN	2010 2200 2103 2113 2123 3123 2203 2010 2020 2500 2600 2700 2110 2110 2110 2110 2110 2110 21	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Microeconomics Microeconomics 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 IA Calculus IB Accelerated Calculus I Honors Calculus I Required credits for School Requirements Ves SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Elective: ts ree Program Technology and Management Professional Activities	3 3 3 3 3 3 3 1 1 3 1 1 3 1 3 2 2 3 3 2 2 0 3 3 3 4 4 4 3 4 3 5 4 4 4 3 7 8 4 4 3 4 3 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 4 3 4 4 4 3 4 4 4 4 3 4	(3)	3 3	2	3	1	3	3	2		3	3 3 3 3 0 11 0 11 0 11 3 3 2 3 2 3 0 3 3 0 0 36	Substituted by CIVL 216 Substituted by CIVL 216 Substituted by ENGG 10 DDP students should take N 1012 or MATH 1013 or sMATH or MATH 1023 to satisfy requirements of both BEng
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Cchool Required Cooking Cookin	2010 2200 2103 2113 2123 3123 2203 2010 2020 2500 2600 2700 2110 2110 2110 2110 2110 2110 21	Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Microeconomics Microeconomics Microeconomics Macroeconomics Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Insiems Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Studient Induction 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 Requirements: Ves SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required credits for Major Required Courses and Elective: ts ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	3 3 3 3 3 3 3 3 3 3 1 1 3 3 1 1 3 3 2 2 0 3 3 3 3 4 3 4 3 4 3 4 3 5 4 3 4 3 4 3 4	(3)	3 3	2	3	3	3	7	2		3	3 3 3 3 3 0 11 0 11 0 11 3 3 2 3 2 3 0 3 3 0 0 3 3 3 0 0 3 3 3 0 0 3 3 3 3	Substituted by CIVL 216 Substituted by CIVL 216 Substituted by ENGG 10 DDP students should take N 1012 or MATH 1013 or sMATH or MATH 1023 to satisfy trequirements of both BEng
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- ^ Courses offered in summer term
 --- denotes the course/requirement is either waived or substituted
- $\ensuremath{\mbox{\#\#}}$ To graduate, students should complete all requirements as specified for DDP.

The Hong Kong University of Science and Technology Interdisciplinary Programs Office

An Example on Student's Pathway

School:

School of Engineering and School of Business Management

Student's Pathway

major

DAGBM (Via DDP PBA) 2020-21 Intake

Dual Degree Program (BEng in Decision Analytics and BBA in General Business Management) Remarks ourse Code Course Title / Courses List Dept **BEng in Decision Analytics Major Requirements** Engineering Fundamental Courses ote: COMP 1021 OR COMP 1022P OR COMP 2011 troduction to Computer Science troduction to Computing with Java This course will also be used substitute ISOM 2010 Programming with C++ Academic Orientation ote: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA CHEM PHYS eneral Physics I with Calculus onors General Physics I Technical Communication I ANG 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB Calculus II MATH 3 6 1023 Honors Calculus I lonors Calculus II MATH 2011 Introduction to Multivariable Calculus 3 3 3 MATH Engineering Introduction course (If the students take an introduction course included in their major, the SENG (3) 0 ourse can be counted towards their major requirement 21 Required credits for Engineering Fundamental Courses Major Required Courses and Electives IEDA Academic and Professional Development I 0 Academic and Professional Development II IEDA 1020 0 0 Note: IEDA1990 OR IEDA1991 Industrial Training IEDA IEDA 0 0 Industrial Experience 3 IEDA Statistics for Engineers 2540 3 3 3 substitute ISOM2500 IEDA Prescriptive Analytics 3010 3 IEDA 3 3230 Engineering Economics and Accounting 3 3 IEDA 3250 Stochastic Models 3 3 3 IEDA Industrial Data Systems Note: IEDA4901 OR IEDA4920 IEDA 3 3 6 Decision Analytics Final Year Project IEDA ENGG Engineering Seminar Series 0 0 0 2010 0 0 0 3 **ECON** Technical Communication II for Industrial Engineering and Decision Analytics

Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list, of which all 5 courses should be taken from the specified elective list. ANG 4032 3 3 IEDA 15 3 15 Required credits for Major Required Courses and Electives 48 **BBA in General Business Management** School Requirements Principles of Accounting I Principles of Accounting II lote: ECON 2103 OR ECON 2113 rinciples of Microeconomics (3) 0 Note: ECON 2123 OR ECON 3123 3 ECON 2123 3 ECON 3123 Macroeconomic Theory Financial Management 3 2010 0 ISOM Introduction to Information Systems 1021/1022P/2011 ISOM ISOM Business Statistics 0 Substituted by IEDA2540 ISOM Operations Management SOM 2120 Marketing Management 3 3 MGMT 2010 Business Ethics and the Individual 2 2 Organizational Behavior /GMT 2110 3 MGMT 2130 Business Ethics and Social Responsibility SBMT Waived for DDP students 1111 Business Student Induction 0 0 LABU 2040 Business Case Analyses 3 3 3 LABU 2060 Effective Communication in Business 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 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 Honors Calculus I Required credits for School Requirements 33 Major Requirements Major Required Courses and Electives

SB&M SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are 29 Required credits for Major Required Courses and Electives 29 **Additional Requirements** Requirements for Dual Degree Program Required Courses TEMG 1010 Technology and Management Professional Activities 0 0 Case-based Problem Solving Required credits for Additional Requirements 3 University CORE U CORE - Others C3 - C12 ORE U CORE - English Language C1 & C2 6 Sub-total for University CORE 36 Term load (ex 16 18 18 18 18 17 18 16 13 170## << Declaration of BBA major << Declaration of BEng () indicates the reuse of the same course to fulfill more than one requirement -- denotes the course/requirement is either waived or substitued ## To graduate, students should complete all requirements specified for DDP

>> 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

<< Declaration of

EEGBM 2020-21 Intake

(Via DDP PBA)

<< Declaration of BEng major BBA major School of Engineering and School of Business Management Student's Pathway School: Dual Degree Program (BEng in Electronic Engineering and BBA in General Busines rogram Management) Remarks Course Title / Courses List Course Code Offering Dept course code prefix) **BEng in Electronic Engineering Major Requirements** Engineering Fundamental Courses te: ELEC2600 OR ELEC2600H) OR MATH2011 OR MATH2111 OR MATH2350 OR MATH 2351 (3 courses out of 6) Probability and Random Processes in Engineering Honors Probability and Random Processes in Engineering 2600H 3 3 9 MATH 2011 ntroduction to Multivariable Calculus Matrix Algebra and Applications
Applied Linear Algebra and Differential Equations 2350 troduction to Differential Equations Note: COMP1021 OR COMP1022P This course will also be used to 1021 3 3 COMF ntroduction to Computer Science substitute ISOM 2010 OMF roduction to Computing with Jav COMP 2011 4 Programming with C++ Academic Orientation NGG 010 0 0 0 2030 ANG Technical Communication I 3 3 lote: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] матн 1012 MATH 1013 Calculus IB 3 3 6 MATH 1014 Calculus II ccelerated Calculus MATH 1023 Honors Calculus I Honors Calculus II Note: PHYS1112 OR PHYS1312 3 PHYS 1112 General Physics I with Calculus 3 3 Honors General Physics I Note: PHYS1114 OR PHYS1314 3 1114 3 3 PHYS General Physics II 314 Honors General Physics II Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) SENG 3-4 (3) 0 Required credits for Engineering Fundamental Courses 32-37 31 Major Required Courses and Electives 1100 Introduction to Electro-Robot Design 4 4 4 4 ELEC 200 A System View of Communications: from Signals to Packets 4 lote: ELEC2100 OR ELEC2100H Signals and Systems 4 ELEC 2100 4 ELEC 100H Honors Signals and Systems ELEC 2350 Introduction to Computer Organization and Design 4 4 ELEC 2400 Electronic Circuits 4 4 4 Academic and Professional Development I **ELEC** 2910 0 0 0 0 ELEC 3910 Academic and Professional Development II 0 0 0 0 Note: (ELEC4900 AND ELEC2991) OR (ELEC4901 AND ELEC2991) OR ELEC4910 (Students taking the Research Option must take ELEC 4901) 6 ELEC 4900 Final Year Design Project 3 6 ELEC 4901 Final Year Thesis ndustrial Experience (Electronic Engineering) ELEC 4910 Co-op Program Engineering Seminar Series 0 0 0 0 0 ENGG 2010 0 LANG 4031 Technical Communication II for ECE & CPEG 3 3 ELEC 3000-level or 4000-level Electives (Any 2 courses ELEC 4000-levek courses. ELEC4940 cannot be used to count towards this elective requirement) ELEC 21 3 3 3 21 Required credits for Major Requirements Courses and Electives 50 50 **BBA in General Business Management School Requirements** ACCT Principles of Accounting I 3 Principles of Accounting II Note: ECON2103 OR ECON2113 CON 2103 Principles of Microeconomics 3 3 Note: ECON2123 OR ECON3123 2123 3 3 3 **ECON** Macroeconomics 3 3 2303 Financial Management 3 Substituted by COMP 1021/1022P ISOM 2010 Introduction to Information Systems 3 0 SOM 2020 Coding for Business ISOM 2500 3 3 Business Statistics 3 SOM 2600 ntroduction to Business Analytics SOM 2700 3 3 Operations Management MARK 2120 Marketing Management 3 3 3 MGMT 2010 Business Ethics and the Individual 2 2 MGMT 2110 Organizational Behavior 3 3 иGMT 130 Business Ethics and Social Responsibility 2 Waived for DDP students SBMT 1111 0 0 Business Student Induction Business Case Analyses LABU 2040 3 3 3 LABU 2060 Effective Communication in Business 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 3 (3) 1012 or MATH 1013 or MATH 1020 MATH 1012 Calculus IA 0 or MATH 1023 to satisfy the ments of both BEng and Accelerated Calculus MATH 1020 BBA degrees lonors Calculus I Required credits for School Requirements 39 **Major Requirements** Major Required Courses and Electives SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 29 6 6 29 4 courses are of 3000-level or above.)

Required credits for Major Required Courses and Electives 29 Additional Requirements **Requirements for Dual Degree Program** Required Courses Technology and Management Professional Activities TEMG 0 0 TEMG 3950 Case-based Problem Solving 3 3 Required credits for Additional Requirements 3 **University CORE** U CORE - Others 30 30 U CORE - English Language 6 **Sub-total for University CORE** 36 36 Term load (excl. free credits 18 18 20 19 20 19 20 19 17 188##

*Remarks on course(s):

Notes

BEng major

BBA major

⁽⁾ indicates the reuse of the same course to fulfill more than one requirement.

⁻⁻ denotes the course/requirement is either waived or substituted ## To graduate, students should complete all requirements as specified for DDP.

>> 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office An Example on Student's Pathway

BEng major

<< Declaration of |<< Declaration of

BBA major

2020-21 Intake IEGBM (Via DDP PBA)

School of Engineering and School of Business Management Student's Pathway School: Dual Degree Program (BEng in Industrial Engineering and Engineering Manage rogram: and BBA in General Business Management) Remarks Course Code Offering Dept. Course Title / Courses List course code prefix) **BEng in Industrial Engineering and Engineering Management** Major Requirements Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 COMP 1021 Introduction to Computer Science This course will also be used to 3 Introduction to Computing with Java Programming with C++ COME 1022P substitute ISOM 2010 NGG 1010 cademic Orientation 0 0 0 Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA General Chemistry IB HEN 1010 1020 1112 3 Seneral Physics I with Calculus PHYS 1312 lonors General Physics I ANG 2030 Technical Communication I 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] ИАТН 1012 Calculus IA MATH 1013 Calculus IB 3 1014 1020 Calculus II Accelerated Calculus MATH 1023 Honors Calculus I матн 1024 Honors Calculus II MATH 2011 ntroduction to Multivariable Calculus 3 3 MATH 2111 Matrix Algebra and Applications 3 3 3 Engineering Introduction course (If the students take an introduction course included in SENG 3-4 (3) 0 eir major, this course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 22-27 21 Major Required Courses and Electives 1010 Academic and Professional Development I 0 0 EDA 1020 cademic and Professional Development II 0 0 0 Note: IEDA1990 OR IEDA1991 0* ٥^ 0 **EDA** 1991 ndustrial Experience IEDA 2520 Probability for Engineers 3 IEDA 2540 Statistics for Engineers 3 3 substitute ISOM2500 IEDA 3010 3 3 Presciptive Analytics IEDA 3230 Engineering Economics and Accounting 3 3 3 Stochastic Models **IEDA** 3250 3 3 IEDA 3300 Industrial Data Systems 3 3 3 3 IEDA 4100 ntegrated Production Systems 3 substitute ISOM 2700 EDA 1130 System Simulation 3 3 6 IEDA 4901 Final Year Thesis 6 3 EDA 4960 ndustrial Engineering and Engineering Management Final Year Project ENGG 2010 Engineering Seminar Series 0 0 0 0 0 0 0 0 0 0 Note: ECON 2103 OR ECON 2113 3 3 2113 **Microeconomics** ANG 4032 Technical Communication II for Industrial Engineering and Decision Analytics 3 Industrial Engineering Electives (Courses from the specified 21 elective list, of which at least 15 credits should be taken from 1 of the 2 areas and at least 6 credits outside that area.) 21 3 21 EDA Required credits for Major Requirements Courses and Electives 57 57 **BBA in General Business Management** School Requirements Principles of Accounting I ACCT 2200 3 3 Note: ECON 2103 OR ECON 2113 2103 (3) 0 ECON 3 Principles of Microeconomics ECON 2113 Note: ECON 2123 OR ECON 3123 2123 3 3 ECON Macroeconomics 3 3123 Macroeconomic Theory I FINA 2303 Financial Management 3 3 3 ISOM 2010 ntroduction to Information Systems 3 0 Substituted by COMP 1021/1022P ISOM 2020 Coding for Business SOM 2500 Business Statistics 0 Substituted by IEDA2540 3 ISOM 2600 Introduction to Business Analytics 1 1 ISOM 2700 Operations Management 3 0 Substituted by IEDA 4100 MARK 2120 Marketing Management 3 3 MGMT 2010 Business Ethics and the Individual 2 2 2 иGMT Organizational Behavior 2110 3 3 MGMT 2130 Business Ethics and Social Responsibility 2 2 SBMT 1111 Business Student Induction 0 0 Waived for DDP students LABU 2040 Business Case Analyses 3 3 LABU 2060 Effective Communication in Business 3 3 3 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 1003 MATH 1012 Calculus IA (3) or MATH 1023 to satisfy the MATH 1013 Calculus IB requirements of both BEng and Required credits for School Requirements 30 Major Requirements Major Required Courses and Electives SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at 29 Required credits for Major Required Courses and Electives 29 Additional Requirements **Requirements for Dual Degree Program** Required Courses TEMG Fechnology and Management Professional Activities 0 TEMG 3950 Case-based Problem Solving 3 3 Required credits for Additional Requirements **University CORE** U CORE - Others 30 30 C1 & C2 U CORE - English Language CORE Sub-total for University CORE 36 36 19 18 18 17 176## << Declaration of BBA major << Declaration of Notes: BEng 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.

>> 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.

The Hong Kong University of Science and Technology **Interdisciplinary Programs Office**

An Example on Student's Pathway

<< Declaration of BEng major BBA major

MEGBM 2020-21 Intake (Via DDP PBA)

						BEng ma	jor	BBA maj	or						
School:		School of Engineering and School of Business Management Dual Degree Program (BEng in Mechanical Engineering and BBA in Gener	ral Busines	ss						Studen	t's Pathway	у			
Program:		Management)													4
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 Me	chanical Fr	ngineering			<u> </u>		u u		Ш		Ш		ш		
Major Require		igineering													
ngineering Fund		S													
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science	3-4 3			!		!							This course will also be used
COMP COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4	3		! ! !		! !						3	substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0	<u>. </u>		} 						0	
ANG	2030	Technical Communication I	3			: 	3	:						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			i I		i I							
MATH MATH	1012 1013	Calculus IA Calculus IB	3	3	3	İ		i						6	
MATH MATH	1014 1020	Calculus II Accelerated Calculus Honors Calculus I	3 4			į		į							
MATH MATH	1023 1024	Honors Calculus II	3	_		<u> </u>		<u> </u>							
MATH	2011	Introduction to Multivariable Calculus Note: MATH2111 OR MATH2350 OR MATH2351	3	-	+	<u> </u>		<u> </u>		3				3	_
MATH MATH	2111 2350	Matrix Algebra and Applications Applied Linear Algebra and Differential Equations	3			ļ		ļ		3				3	
MATH	2351	Introduction to Differential Equations Note: PHYS1112 OR PHYS1312	3	╂	+	<u> </u>		<u> </u>							
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3		3	<u> </u> -		<u> </u>						3	
CHEM/LIFS/ PHYS	1312	Science 1000-level course (Any 1 course of the subject and level as specified)	3	1	(3)	<u> </u>		!						0	
4 : 5 : 10		Required credits for Engineering Fundamental Course	S 22-26		<u> </u>	!								21	
Major Required C	ourses and Elec	tives Industrial Training	0	 	Т	0*	0^	<u>. </u>					1	0	T
MECH	2020	Statics and Dynamics	3			3								3	1
MECH MECH	2040	Solid Mechanics I Fluid Mechanics	3	—	+	<u>:</u> 		<u>:</u> i	3					3	
MECH	2310	Thermodynamics	3	士	_	3								3	
MECH MECH	2410 2520	Engineering Materials I Design and Manufacturing I	3	+		!	3	:						3	<u> </u>
MECH	2907	Mechatronic Design and Prototyping	3	-	+	<u>. </u>	3	<u>i</u> 	3					3	_
MECH	3030	Mechanisms of Machinery	3	1							3			3	
MECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 Energy Conversion	3			i		İ		3				3	
MECH MECH	3420 3520	Engineering Materials II Design and Manufacturing II	3 3			<u> </u>		<u> </u>							
MECH MECH	3310 3610	Heat Transfer Control Principles	3	-	+	<u> </u>		3			3			3	
MECH	3630	Electrical Technology	3		+	į		j	3					3	
MECH	3830 4900	Laboratory Final Year Design Project	3		1	<u> </u>		<u> </u>			3	3	3	3 6	
ELEC	2420	Basic Electronics	3	-	+	3		 				3	3	3	
ENGG	2010	Engineering Seminar Series	0	1		0	0	0	0					0	
ANG	4034	Technical Communication II for Mechanical and Areospace Engineering Required credits for Major Requirements Courses and Electives	3 S 51	-	+	<u> </u>		<u> </u>			3			3 51	
BBA in Gen	eral Busine	ess Management				_		-							
School Requi						1	1			1		1	1		1
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3	-	+	3		<u>:</u> 	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			I 3		: 						3	
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3	 	+	:		<u> </u>						,	
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3			İ		3						3	
FINA	2303	Financial Management	3	-	+	<u>. </u>	3	<u>- </u>						3	-
SOM	2010	Introduction to Information Systems	3			i		i		-				0	Substituted by COMP 1021/1022P/2011
SOM	2020 2500	Coding for Business Business Statistics	1 3		1			1						1	
SOM	2600	Introduction to Business Analytics	1	-	+	3		1						1	
SOM	2700	Operations Management	3						3					3	
MARK MGMT	2120 2010	Marketing Management Business Ethics and the Individual	2	+	+	2	3	<u> </u>						3 2	1
MGMT	2110	Organizational Behavior	3	1		<u>!</u>	3	<u> </u>						3	
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	0			<u> </u>		2					_	0	Waived for DDP students
_ABU	2040	Business Case Analyses	3			 		3						3	
ABU	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4	#-	+	<u>:</u>		! :		3				3	<u> </u>
MATH MATH	1003 1012	Note: MATH 1035 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA	3 4			! !		: :							DDP students should take MAT 1012 or MATH 1013 or MATH 1
MATH MATH	1012 1013 1020	Calculus IA Calculus IB Accelerated Calculus	3 4	(3)		<u>:</u> 		! !						0	or MATH 1023 to satisfy the requirements of both BEng ar
MATH	1023	Honors Calculus I	3			<u> </u>		<u>:</u>							BBA degrees
Major Require	mente	Required credits for School Requirement	S 43-44			<u>. </u>		<u>. </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	39	
Major Required C															
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29		I	ĺ		6		3	3	7	10	29	
A -1 -1:4:		Required credits for Major Required Courses and Elective	S 29			<u> </u>		<u> </u>						29	
Additional F															
Requirements Required Courses		gree Program													
EMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
EMG	3950	Case-based Problem Solving Required credits for Additional Requirement	3	-	3	<u> </u>		<u> </u>						3	_
	RE	required distalls for Additional Requirement	<u>-1 </u>	_II		I	<u> </u>		1	1	1	1	1	1	1
Jniversity CO	C3 - C12	U CORE - Others	30	9	6	<u> </u>		<u> </u>		3	3	6	3	30	
ORE			6	3	3	ı	1	I				1		6	1
	C1 & C2	U CORE - English Language Sub-total for University COR		+		i								36	
ORE		Sub-total for University COR				i I		Term load (e						36	
RE				18	18	20	18	19	xcl. free cree	dits)	18	16	16	36	

⁽⁾ 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.

>> 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

The Hong Kong University of Science and Technology **Interdisciplinary Programs Office**

<< Declaration of BEng major << Declaration of BBA major

<u>BEFINA</u>

2020-21 Intake

School: School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Bioengineering and BBA in Finance) rogram: Remarks Course Title / Courses List BEng in Bioengineering Major Requirements Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science Introduction to Computing with Java Python Programming Bridging Course Programming with C++
Academic Orientation Engineering Fundamental Courses DDP students should take COMP 1022P to satisfy the equirements of both BEng and BBA degrees НЕМ aboratory for General Chemistry I Technical Communication I General Biology I
Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND
(MATH 1014 OR MATH 1024)] OR [MATH 1020]
Calculus IA
Calculus IB
Calculus IB
Calculus IB
Honors Calculus I
Honors Calculus I LIFS 3 Honors Calculus I
Honors Calculus I
Honors Calculus I
Note: PHYS 1112 OR
General Physics I with Calculus
Honors General Physics I
Engineering Introduction course (if the students take an introduction course included in their major MATH PHYS PHYS 3-4 (3) 0 Required credits for Engineering Fundamental Courses Major Required Courses and Electives Note: BIEN 1010 OR CENG 1000 3 3 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering Modeling for Chemical and Biological Engineering BIEN Cellular and Systems Physiology for Engineers BIEN 2610 Chemical Biology for Engineers 3 BIEN Academic and Professional Development I 1 BIEN 3240 Transport Phenomena in Biological Systems 3 3 3 BIEN 3320 Data Science for Biology and Medicine 3 3 3 BIEN 3410 Introduction to Bioinstrumentation and Bioimaging 3 3 BIEN Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 BIEN BIEN lioengineering Capstone Design lioengineering Thesis Research 6 3 3 BIEN Academic and Professional Development II Chemical and Biological Engineering Thermodynamics CENG 2210 3 3 Chemical and Biological Reaction Engineering ENG 3 lote: LIFS 3150 OR MATH 2411 3-4 3 3 3 Applied Statistics MATH Technical Communication II for Chemical and Biological Engineering Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits shoul laken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should be at 4000-level) 15 6 SCI/SENG 3 15 Required credits for Major Required Courses and Electives 60 **BBA** in Finance School Requirements Principles of Accounting I 3 rinciples of Accounting II ote: ECON 2103 OR ECON 2113 rinciples of Microeconomics 3 3 Microeconomics
Note: ECON 2123 OR ECON 3123 ECON 3 3 FINA 2303 is a ma 2303 Financial Management 3 Introduction to Information Systems SOM 2020 Coding for Business 0 1021/1022P/1029P/2011 Substituted by SOM 2500 Business Statistics LIFS 3150/MATH 2411 0 SOM 2600 Introduction to Business Analytics 1 BIEN3320 ISOM 2700 Operations Management 3 3 MARK 2120 Marketing Management 3 MGMT 2010 Business Ethics and the Individual 2 2 MGMT 2110 Organizational Behavior 3 3 иGМТ 2130 Business Ethics and Social Responsibility 2 SBMT Business Student Induction 0 Substituted by ENGG 1010 ABU usiness Case Analyses Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DP students should take MATI 1012 or MATH 1013 or MATH Calculus IA 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees (3) Required credits for School Requirements 34 43-44 Major Requirements Major Required Courses and Electives FINA Key Skills for Finance Professionals (A) 3 3 INA 3203 Derivative Securities 3 3 FINA 3303 Intermediate Corporate Finance 3 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 3 inancial Accounting II Intermediate Financial Accounting for Non-Accounting Majors
Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P DDP students should take COMP 1022P to satisfy the Business Applications Programming Python Programming for Business Analytics Introduction to Computing with Java 3230 3400 (3) FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) 9 Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Technology and Management Professional Activities TEMG Case-based Problem Solving 3 Required credits for Additional Requirements 3 University CORE C3 - C12 U CORF - Others 30 C1 & C2 U CORE - English Language 6 Sub-total for University CORE 36 36 18 19 19 18 major

() indicates the reuse of the same course to fulfill more than one requirement

--- denotes the course/requirement is either waived or substitued

To graduate, students should complete all requirements specified for DDP



<< Declaration of
BEng major</pre>
<< Declaration of
BBA major</pre>

Column C	School:		School of Science and School of Business Management		П		<< Declara BEng maj		<< Declar BBA majo		Student's	Pathway				
The color of the	Program:										Student's	ralliway				
The color of the	Caura				Ye	Yea	×	Yea		Yea	Ye	Yea	Y	Yea	ဖွ	Remarks
Sign Figure (1996) Company Comp	Offering Dept.	Course Code	Course Title / Courses List	Credits	ear 1 Fa	ar 1 Spr	ear 2 Fa	ar 2 Spr	ear 3 Fa	ω	ear 4 Fa	ar 4 Spr	ch ch	ar 5 Spr	ub-tota	Remarks
School Service Control		nchnology			=	ing	al	ing	=	ing	all	ing	all	ing	=	
The content of the	School Requi	rements														
Column	SCIE		Note: COMP1021 OR COMP1022P OR COMP2011	3-4	0	0	 		<u> </u>							DDP students should take COMF
Section	COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4			3		!							1022P to satisfy the requirements both BEng and BBA degrees
	LANG SSCI	2010	Science Foundation courses [8 courses from the specified elective list. Students shoul				 		3						3	
The content of the			lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laborator	•			! :		!							
The content of the	CHEM CHEM	1010	General Chemistry IA				į		į							
The content of the	CHEM CHEM CHEM	1030	General Chemistry II	3			! !		!							
The content of the	CHEM	1055	Laboratory for General Chemistry II	1			į		į							
1	LIFS LIFS	1901 [@]	General Biology I [®]	3			•		į							LIFS1901 & LIFS1902 are Major P
1	LIFS LIFS LIFS	1904	Laboratory for General Biology II	1			! :		! !							Students are recommended to take
## Property Company 1	LIFS	2210	Biochemistry I	3	10	3	6 I	3	į						22	and MATH1013 to satisfy the requirements of both SSCI School
The content of the	MATH MATH	1013	Calculus IB	3			! !		! !							requirements and Major
Section Sect	MATH MATH MATH	1023	Honors Calculus I	3			į		į							
Section Sect	MATH MATH	2023 2121	Multivariable Calculus Linear Algebra	4			! !									
	PHY						i i		! :							
Section Sect	PHY PHY	1111 1112	General Physics I General Physics I with Calculus	3			į		į							
## Pales Pal	PHY PHY	1114 1115	General Physics II	3 1			! 		!							
## 15 10 10 10 10 10 10 10		ements		25-29	11	l	:	L	:	l	l		l	l	28	
## Section Proceedings 1 1 1 1 1 1 1 1 1	LIFS	1903	Laboratory for General Biology I		(1)										0	
## Part		2040	Cell Biology	3		1		3							3	
## 1	LIFS LIFS	2070 2080	Introduction to Biotechnology	3			3								3	
The content of the	LIFS LIFS		Biochemistry I				(3)			3					0	
Section	LIFS LIFS								3		4					
Company Comp	LIFS LIFS		Concepts and Issues in Contemporary Biotechnology				i i		<u> </u> 		3		3			
March Marc			Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) (Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the				 !		i !							
March Marc	LIFS LIFS	4973	Biotechnology Capstone Project Biotechnology Project Research I	3			! !		!				[3]	3	3	
100	LIFS SCIE		IRE Research Project I	3	-		<u>i </u>		<u> </u>					-		
Section Sect	CHEM CHEM	1020	General Chemistry IA General Chemistry IB	3	(3)		<u> </u>		<u> </u>							
1	CHEM	1050	Laboratory for General Chemistry I	1	1										1	
Page			Note: CHEM 2110 OR CHEM 2311			1	<u>:</u>		3							
1985	CHEM	2311	Analytical Chemistry Note: CHEM2155 OR CHEM2355				<u>i</u> i		i ° i							
Section Sect	CHEM CHEM	2355	Fundamental Analytical Chemistry Laboratory	1 1			<u>į </u>		<u>į </u>	1	2					
Fige-Perfolio Place are rejigated belay a performance of a control			Science Communication in English (Life Science)				<u> </u>		-		,			3	-	
Required credits for Major Regulared Courses and Electrices 2078	LIFS/BIPH/BTEC/BIEN/ CENG		Track are required to take a minimum of 15 credits; while others a minimum of 18 credits. Courses taken as Major/Track Required Courses may not be counted towards the elective	15-18			į		į	3		3	6	3	15	
School Requirements 1				62-70			<u>:</u> !		<u>:</u>						56	
Section Section Processor of According 3																
Description Description	ACCT	2010		_		3	į .		į.	3						
Second Column	ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			 	3	!	Ů						
100 100	ECON		Note: ECON 2123 OR ECON 3123	3			<u>:</u> :		3						3	
Company Comp	ECON FINA				 		<u> </u>	3	<u> </u>						3	FINA 2303 is a major pre-requisite
Supplemental Supp	ISOM		*		-							-	-	-		Substituted by COMP 1021/1022P/1022Q/2011
Source State Sta	ISOM	2500	Business Statistics	3			3	1	<u> </u>						3	
MATH 1910 Description of Behavior 1910 Description of Be	ISOM	2700	Operations Management	3			 			3	1				3	
Major Required Courses and Electrons Security Course Securit	MGMT	2010	Business Ethics and the Individual	2		2	<u>:</u>	3	<u>: </u>						2	
ABU 200	MGMT	2130	Business Ethics and Social Responsibility	2			i		 						2	Male of Total
APPLIED 1003	LABU	2040	Business Case Analyses	3			 		-					_	3	waived for DDP students
MATH 1012 Cackus IA Cackus IA Cackus IA 1012 Cackus	MATH		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4	1		! 		<u>: </u>				3		3	DDP students should take MATH
Major Requirements Sequence	MATH MATH	1012 1013	Calculus IA Calculus IB	4	(3)		!		!						0	1013 OR MATH 1023 to satisfy the requirements of both BSc and BB/
Major Requirements	MATH MATH		Honors Calculus I	3	lacksquare		<u> </u>		<u> </u>					\vdash	39	gegrees
PinA					•											
PinA	FINA	3001	Key Skills for Finance Professionals (A)	_			<u>i </u>		 							
Note: (ACCT 3010 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 3 3 3 3 3 3 4 4 4 4	FINA	3203	Derivative Securities	3			;		3			3			3	
Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-4 3-4 3-5	FINA FINA				-		<u> </u>		0		3					
Sociation Soci	ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3			!		i							
SOM 3230 Business Applications Programming 3 3 (3)	ACCT ACCT		Intermediate Financial Accounting for Non-Accounting Majors	3	<u> </u>		<u>: </u>		!							200 4 1 1
Common 1022P Introduction to Computing with Java 200-level at a place Editive 1022P	ISOM ISOM	3400	Business Applications Programming Python Programming for Business Analytics	3			(3)		į						0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
Additional Requirements Requirements For Dual Degree Program Requirements for Dual Degree Program For Dual Degre	COMP FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)									3	3	3	9	
Requirements for Dual Degree Program Required Courses	Additional 5			25-28	1		i		i					1	22	
TEMG	Requirements	for Dual Degr														
Required credits for Additional Requirements 3	TEMG	1010			0		0	0	0	0	0	0	0	0		
CORE C3 - C12 U CORE - Others 30 3 3 6 6 6 3 3 3 5 6 6 6 7 7 7 7 7 7 7	TEMG					3	<u>: </u>		<u>: </u>							
CORE C1 & C2 U CORE - English Language 6 3 3 3 6 6 Sub-total for University CORE 36 3 3 3 6 36	CORE	C3 - C12								6	6	6	3	3		
17 19 18 19 19 20 18 18 17	CORE	C1 & C2			3	3										
					17	19	18	19	19	19	20	18	18	17		

@ Course that students need to complete before enrolling into respective major/programs.

() indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

---- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

>> 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.

The Hong Kong University of Science and Technology **Interdisciplinary Programs Office**

An Example on Student's Pathway

<< Declaration of << Declaration of BBA major

BEng major

CEFINA 2020-21 Intake

School: School of Engineering and School of Business Management Student's Pathway ogram Dual Degree Program (BEng in Chemical Engineering and BBA in Finance) Offering Dept. Course Title / Courses List course code prefix) BEng in Chemical Engineering Major Requirements Engineering Fundamental lote: COMP 1021 OR COMP 1022P OR COMP 2011 DDP students should take COMP ntroduction to Computer Science ntroduction to Computing with Java 1022P to satisfy the requirements 1022P of both BEng and BBA degrees COMP Programming with C++ Academic Orientation
Note: CHEM1010 OR CHEM1020 0 1010 3 3 3 CHEM Seneral Chemistry IA CHEM 1020 Seneral Chemistry IB General Chemistry IB
Technical Communication I
Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND
(MATH 1014 OR MATH 1024)] OR [MATH 1020]
Calculus IA
Calculus IB
Calculus II
Accelerated Calculus I
Honors Calculus I
I
Honors Calculus II
Introduction to Multivariable Calculus 3 1024 MATH 2011 Introduction to Multivariable Calculus 3 3 lote: PHYS 1112 OR PHYS 1312 Jeneral Physics I with Calculus Jonors General Physics I PHYS 1112 3 3 Required credits for Engineering Fundamental Courses 21 19-23 Major Required Courses and Elective Note: CENG1000 OR CENG1500 3 3 CENG 1000 ntroduction to Chemical and Biological Engineering A First Course on Materials Science and Application Note: CENG1600 OR CENG1700 OR BIEN101: Biotechnology and Its Business Opportunities Introduction to Environmental Engineering Introduction to Biomedical Engineering 3 CENG 1010 Academic and Professional Development I 0 0 CENG 1980 ndustrial Training 0 0 CENG 2210 Chemical and Biological Engineering Thermo 3 3 CENG 2220 Process Fluid Mechanics 3 3 3 2310 CENG Modeling for Chemical and Biological Engineering 3 3 Process Dynamics and Control 3 3 ntegrated Chemical Process & Product Design CENG 3150 5 5 5 CENG Heat and Mass Transfer 3 3 Chemical and Biological Reaction Engineering CENG 3230 3 3 Chemical and Environment Engineering Laborator 3950 0 Academic and Professional Development II CENG 4020 0 0 Note: CENG4920 OR CENG4930 OR CENG4940 CENG 4920 Chemical Engineering Capstone Design Chemical Engineering Thesis Research 3 6 CENG 4930 CENG Chemical Engineering Industrial Projec 2010 Engineering Seminar Series 0 CHEM 1050 aboratory for General Chemistry I CHEM Fundamentals of Organic Chemistry 3 Fundamental Organic Chemistry Laboratory LANG 4035 Technical Communication II for Chemical and Biological Engineering 3 Note: BIEN2410 OR BIEN2610 OR LIFS1901 2410 2610 1901 Cellular and Systems Physiology for Engineers BIEN 3 3 3 Chemical Biology for Engineers 12 Required credits for Major Requirements Courses and Electives 68 68 **BBA** in Finance School Requirements Principles of Accounting I 3 Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics 3 3 Note: ECON 2123 OR ECON 3123 3 3 CON 2123 3 3123 Macroeconomic Theory FINA 2303 is a major pre-requisite FINA 2303 inancial Management 3 3 3 Substituted by COMP 2010 ISOM ntroduction to Information Systems 3 ---0 1021/1022P/COMP2011 ISOM 2020 Coding for Business ISOM usiness Statistics 3 3 Introduction to Business Analytics ISOM Operations Management 3 3 MARK Marketing Management 3 3 MGMT Business Ethics and the Individua MGMT 2110 Organizational Behavior 3 3 MGMT 2130 Business Ethics and Social Responsibility SBMT Waived for DDP student 0 LABU Business Case Analyses LABU 2060 Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA
Calculus IB
Accelerated Calculus IB 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 (3) Required credits for School Requirements 45-46 39 Major Requirements Major Required Courses and Elec Key Skills for Finance Professionals (A) 3103 Intermediate Investments Derivative Securities 3 3 FINA 3303 Intermediate Corporate Finance 3 3 0 FINA 3810 Bloomberg Market Concepts Certification 0 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 3010 ACCT inancial Accounting I 3 Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P Business Applications Programming ISOM 3230 (3) 1022P to satisfy the requirements of both BEng and BBA degrees ISOM COMP Python Programming for Business Analytics Introduction to Computing with Java 3400 1022P FINA FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives 22 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities TEMG 3950 Required credits for Additional Requirements **University CORE** U CORE - Others C3 - C12 30 30 U CORE - English Language Sub-total for University CORE 36 19 19 20 20 189##

emarks on course(s)

<< Declaration of | << Declaration of

BBA major

BEng 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.

>> 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

<< Declaration of

CIFINA 2020-21 Intake

BEng major BBA major School: Student's Pathway School of Engineering and School of Business Management Dual Degree Program (BEng in Civil Engineering and BBA in Finance) Remarks Course Title / Courses List Offering Dept. Course Code BEng in Civil Engineering Major Requirements Engineering Fundamental Courses ote: COMP 1021 OR COMP 1022P OR COMP 2011 DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees COMP COMP COMP ntroduction to Computer Science ntroduction to Computing with Java Programming with C++ ENGG 1010 Note: CHEM 1010 OR CHEM 1020 1010 General Chemistry IA 3 3 CHEM 3 LANG Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB 3 MATH Calculus II Accelerated Calculus матн 1023 Ionors Calculus I MATH 1024 lonors Calculus II ntroduction to Multivariable Calculus MATH 2350 Applied Linear Algebra and Differential Equations 3 3 Note: PHYS 1112 OR PHYS 1312 3 PHYS General Physics I with Calculus 3 PHYS 1312 Honors General Physics I Required credits for Engineering Fundamental Courses Major Required Courses and Electives 1010 Academic Professional Development I 0 Discovering Civil and Environmental Engineering 3 3 Academic Professional Development II 2010 0 0 Industrial and BIM Training 0 0 2120 Mechanics of Materials 3 3 Modeling Systems with Uncertainties 3 his course will also be used to substitute ISOM 2500 2170 CIVL Infrastructure Systems Engineering and Managemen 3 3 Environmental Assessment and Management 3 3 CIVL 2510 Fluid Mechanics 3 3 CIVL 2810 Construction Materials 3 3 Academic Professional Development III 0 Internship Training 3020 0 0^ Introduction to Construction Management 3210 3 3 3 Structural Analysis 3320 Reinforced Concrete Design 3 3 CIVL 3510 Hydrosystems Engineering 3 Fraffic and Transportation Engineering 3730 Fundamentals of Geotechnics 3 3 CIVL 3740 Geotechnical Analysis and Design 3 3 Secretarinical Analysis and Design Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project Civil and Environmental Engineering Final Year Thesis 4910 4920 6 3 3 6 CIVL 4950 Civil Engineering Capstone Design Project 3 3 3 ENGG 2010 Engineering Seminar Series 0 0 0 0 0 LANG 4033 Technical Communication II for Civil and Environmental Engine 3 3 CIVL Electives (3 courses from the specified elective list) Any CIVL courses at 4000-level or above except CIVL 4230 9 3 3 3 9 CIVL/SENG SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL Required credits for Major Requirements Courses and Electives **BBA** in Finance School Requirements Principles of Accounting I ACCT 2200 Principles of Accounting II Note: ECON 2103 OR ECON 2113
Principles of Microeconomics ECON ECON 2103 2113 3 lote: ECON 2123 OR ECON 3123 2123 3 3 3 3 3 FINA 2303 is a major pre-requisite ISOM 2010 Introduction to Information Systems 3 Substituted by COMP 1021/1022F 0 Coding for Business ISOM ISOM 2500 Business Statistics 3 0 Substituted by CIVL 2160 ISOM 1 2600 Introduction to Business Analytics 1 Operations Managemen MARK 2120 Marketing Management 3 MGMT 2010 Business Ethics and the Individual 2 2 MGMT MGMT 2130 Business Ethics and Social Responsibility 2 SBMT Business Student Induction 0 0 Waived for DDP students LABU 2060 Effective Communication in Business 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra 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 MATH MATH MATH MATH (3) Honors Calculus I Required credits for School Requirements 43-44 36 Major Requirements Major Required Courses and Electives Key Skills for Finance Professionals (A) 1 1 1 FINA 3103 Intermediate Investments 3 3 3 FINA 3203 Derivative Securities 3 3 3 3303 Intermediate Corporate Finance 3 3 3810 loomberg Market Concepts Certification 0 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Note: ISOM 3230 OR ISOM 3400 OR COMP 1022F ISOM/COM DDP students should take COMP Business Applications Programming ISOM Python Programming for Business Analytics of both BEng and BBA degrees COMP Introduction to Computing with Java FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives 25-28 22 **Additional Requirements** Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements University CORE U CORE - Others U CORE - English Language C1 & C2 Sub-total for University CORE 36 18 18 187## << Declaration of | Notes BEng major BBA 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.

>> 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.

<< Declaration of BEng major BBA major

COFINA 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management				BENG Ma		вва тај		Student'	s Pathway				
Program:		Dual Degree Program (BEng in Computer Science and BBA in Finance)													
	1	Table 259.55 First State (2219 in 2011) Part of the 221 in Finance,													
Course			Ω	Yea	Year	Yea	Year	Yea	Year 3	Yea	Year	Yea	Year	Su	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	3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	
				=	ing	<u> </u>	ing	<u> </u>	ing	=	ing	=	ing	_	
	mputer Scie	nce													
Major Require Engineering Fund	damental Courses														
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3		i		i						3	DDP students should take COMF 1022P to satisfy the requirements
COMP	1022P	Introduction to Computing with Java	3			<u>i</u>		<u>i</u>							of both BEng and BBA degrees
ENGG	1010	Academic Orientation Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR	0	0	0	<u> </u>		<u> </u>						0	
CHEM CHEM	1004 1010	LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312 Chemistry in Everyday Life General Chemistry IA	3			!		!							
CHEM LIFS	1020 1901	General Chemistry IB General Biology I	3	3		: I		i						3	
PHYS PHYS	1001 1112	Physics and the Modern Society General Physics I with Calculus	3			į		į							
PHYS LANG	1312 2030	Honors General Physics I Technical Communication I	3			<u> </u>		3						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			:									
MATH MATH	1012 1013	Calculus IA Calculus IB	3	3	3	: I		i						6	
MATH MATH MATH	1014 1020 1023	Calculus II Accelerated Calculus Honors Calculus I	3 4 3			į		į							
MATH MATH	1024 2111	Honors Calculus I Honors Calculus I Matrix Algebra and Applications	3			3								3	
SENG		Engineering Introduction course (COMP students may also use COMP1022P o COMP1022Q to fulfill this requirement	3-4	(3)		! 		:						0	
Major Required (Courses and Elect	Required credits for Engineering Fundamental Courses	19-23											18	
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4			<u>į</u>		<u> </u>							
COMP COMP	2012 2012H	Chipect-Oriented Programming and Data Structures Honors Object-Oriented Programming and Data Structures	4 5	1	L	4	4	<u>!</u>	L	L	L	L	L	8	
COMP	2611	Computer Organization Note: COMP2711 OR COMP2711H	4			:		:	4					4	
COMP COMP	2711 2711H	Note: COMP2/11 OR COMP2/11H Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Science	4 4			4		į						4	
COMP	3111	Note: COMP3111 OR COMP3111H Software Engineering	4			<u> </u>		4						4	
COMP	3111H 3511	Operating Systems Operating Systems	4 3	-		<u>!</u>		<u> </u>		3				3	
COMP	3711	Operating Systems Note: COMP3711 OR COMP3711H Design and Analysis of Algorithms	3-4 3			: 		3				İ	İ	3	
COMP	3711H	Design and Analysis of Algorithms Honors Design and Analysis of Algorithms Note: Students are required to take COMP4900 for every regular	4	1		<u> </u>									
COMP	4900	Note: Students are required to take COMP-4900 for every regular term in which they are in residency at HKUST with major in COMP Academic and Professional Development	0			0	0	0	0	0	0	0	0	0	
COMP COMP	1991	Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910 Industrial Experience	6 0			<u> </u>		l i							
COMP COMP	4981 4981H	Final Year Project Final Year Thesis	6 6			:		!				3	3	6	
COMP	4910	Co-op FYP Program Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431 Probability and Pandam Processes in Engineering	6 3-4	-		<u>. </u>	1	İ		<u> </u>		 	<u> </u>	<u> </u>	
ELEC IEDA IEDA	2600 2520 2540	Probability and Random Processes in Engineering Probability for Engineers Statistics for Engineers	4 3 3			4		į						4	Students should take MATH 2411 which will also be used to substitut
MATH MATH	2411 2421	Statistics for Engineers Applied Statistics Probability	4			[*] -] :						-	ISOM 2500.
MATH ENGG	2431 2010	Honors Probability Engineering Seminar Series	4 0	1		0	0	0	0	-			-	0	
LANG	4030	Technical Communication II for CSE & CPEG COMP Electives (5 courses from the specified elective list, of which at least 3 course	3			 		i I			-	3		3	
COMP		comp Electives (5 courses into in the specimed elective into in the state of the should be taken from 1 area and at least 2 courses outside that area. COMP Elective (Any 1 course offered under COMP)	15 3			<u> </u>		<u> </u>		3	6	3	3	15 3	
		red credits for Major Requirements Courses and Electives		1		<u>; </u>		<u> </u>					İ	57	
BBA in Fina School Requi															
ACCT	2010	Principles of Accounting I	3		3	<u> </u>		<u> </u>	_					3	
ACCT	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3			<u> </u>		<u> </u>	3	[1	1	3	1
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3 3			:	3	!						3	
ECON ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			į		3						3	
ECON FINA	3123 2303	Macroeconomic Theory I Financial Management	3	1		!	3	İ						3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3			-		-						0	Substituted by COMP 1021/1022P
ISOM ISOM	2020 2500	Coding for Business Business Statistics	3			-		1						0	Substituted by MATH 2411
ISOM	2600 2700	Introduction to Business Analytics Operations Management	1			İ	1	i	3					1	
MARK	2120	Marketing Management	3		3	i _		<u>i</u>						3	
MGMT MGMT	2010 2110	Business Ethics and the Individual Organizational Behavior	3			3		<u> </u>						3	
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	2				2	-				_		2	Waived for DDP students
LABU	2040	Business Case Analyses	3	1		<u>i </u>	3	<u>. </u>						3	
LABU	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear March.	3-4			!	1	!	3	 		 	 	3	DDP students should take MATH
MATH MATH MATH	1003 1012 1013	Calculus and Linear Algebra Calculus IA Calculus IB	3 4 3	(3)		:		1 i						0	1012 or MATH 1013 or MATH 102 or MATH 1023 to satisfy the
MATH MATH MATH	1013 1020 1023	Calculus IB Accelerated Calculus Honors Calculus I	3 4 3			: i		:							requirements of both BEng and BBA degrees
	•	Required credits for School Requirements	-	1		i		i						36	
Major Required O	ements Courses and Elect	ives													
FINA	3001	Key Skills for Finance Professionals (A)	1			<u> </u>		1						1	
FINA FINA	3103 3203	Intermediate Investments Derivative Securities	3	1		! 		3		-	3			3	
FINA	3303	Intermediate Corporate Finance	3			<u>i </u>		<u> </u>		3	Ľ			3	
FINA	3810	Bloomberg Market Concepts Certification Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	0 3-6					0						0	
ACCT ACCT	3010 3020	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I Financial Accounting II	3-6			i I		!		3				3	
ACCT ISOM/COMP	3030	Intermediate Financial Accounting for Non-Accounting Majors Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3	-		<u>:</u>		<u>:</u>						-	DDD stall to the s
ISOM ISOM	3230 3400	Business Applications Programming Python Programming for Business Analytics	3	(3)		į		į						0	DDP students should take COMP 1022P to satisfy the requirements
COMP	1022P	Introduction to Computing with Java FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	3	-		 	1	<u> </u>		-	3	3	3	9	of both BEng and BBA degrees
	F	Required credits for Major Required Courses and Electives	25-28	<u> </u>		<u>: </u>	L	<u>1</u>				L	\Box	22	
	Requiremen	ts	•		•		•		-	•	-	•	•	•	
Requirements Required Course	s for Dual Deg	ree Program													
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving Required credits for Additional Requirements	3	1	3	<u>!</u>	<u> </u>	<u>!</u>	<u> </u>	\vdash			\vdash	3	
University CC						•			· -		· -	·			1
CORE CORE	C3 - C12 C1 & C2	U CORE - Others U CORE - English Language	30 6	6 3	3	<u>; </u>	3	<u> </u>	3	6	3	3	3	30 6	
		Sub-total for University CORE	36	1		<u> </u>	Т	erm load (ex	ccl. free cred	dits)				36	
				18	18	20		18	16 2##	18	15	15	15]	
Notes:								<< Decla	ration of					J	
Notes:						BEng ma		BBA maj							

() indicates the reuse of the same course to fulfill more than one requirement.

--- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

<< Declaration of BEng major BBA major

<u>CPFINA</u> 2020-21 Intake (Via DDP PBA)

School School of Engineering and School of Business Management	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total 3 0 3 6	Remarks DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
Course Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Code Course Title / Courses List Course Title / Course Code Course Title / Course Code Course Title / Course Code Course Title / Course Title / Course Code Course Title / Course Code Course Title / Course Code Course Title / Course Titl	Spring	Year 4 Fall	Year 4 Spring	5		3 0 3	DDP students should take COMP 1022P to satisfy the requirements of
Bang in Computer Engineering	Spring	Year 4 Fall	Year 4 Spring	5		3 0 3	DDP students should take COMP 1022P to satisfy the requirements of
Major Requirements						0 3	1022P to satisfy the requirements of
Engineering Fundamental Courses	3					0 3	1022P to satisfy the requirements of
Note: COMP 1021 Note: COMP102P Introduction to Computing with Java 3 3 3 1 1 1 1 1 1 1	3					0 3	1022P to satisfy the requirements of
COMP 1022P Introduction to Computing with Java 3	3					0 3	
LANG	3					3	
MATH	3					6	
MATH	3					6	
MATH	3					ı	
MATH	3					i	
Note: PHYS1112 OR PHYS1312 General Physics I with Calculus 3 3 3 3 3 3 4 5 5 5 5 5 5 5 5 5	3					3	
PHYS	3				\vdash	3	
PHYS	3					3	
Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) Required Credits for Engineering Fundamental Courses 25-29						3	
Their major, this course can be counted towards their major requirement.) 10 10 10 10 10 10 10 1		l			\vdash	0	
Major Required Courses and Electives CPEG 2930 Academic and Professional Development I 0 0 0 CPEG 3930 Academic and Professional Development II 0 0 0 COMP 2011 Note: (COMP2011 AND COMP2012) OR COMP2012H 5-8						24	
CPEG 3930 Academic and Professional Development II 0 0 0							
COMP 2011 Programming with C++ 4 4 4 4 COMP 2012 Object-Oriented Programming and Data Structures 4 4 4 COMP 2012H Honors Object-Oriented Programming and Data Structures 5 5 Note: COMP2611 OR ELEC2350 4 4	0					0	
COMP 2012 Object-Oriented Programming and Data Structures 4						8	
						<u> </u>	
						4	
ELEC 2350 Introduction to Computer Organization and Design 4 4 Note: COMP2711 OR COMP2711 OR COMP2711H OR ELECATION 4 4 COMP 2711 Discrete Mathematical Tools for Computer Science 4							
COMP		4				4	
COMP 3511 Operating Systems 3			3			3	
COMP 4521 Mobile Application Development 3 COMP 4611 Design and Analysis of Computer Architectures 3				3		3	
ELEC 4310 Embedded System Design 4 ELEC 4320 FPGA-based Design: From Theory to Practice 3				3		3	
ELEC 4330 Mobile Embedded Systems: Hardware Platform, Software Development, and Applications 3 Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) 6							
AND CPEG1971 OR CPEG4910 CPEG 1971 Industrial Experience 0 CPEG 4901 Computer Engineering Final Year Project in COMP 6 CPEG C							
CPEG				3	3	6	
CPEG 4912 Computer Engineering Final Year Thesis in ELEC 6 CPEG 4910 Co-op Program 6							
ELEC Introduction to Electro-Robot Design 4 4						4	
Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3)	4					8	
ELEC	+		4			4	
ENGG 2010 Engineering Seminar Series 0 0 0 0	0		4			0	
Note: LANG4030 OR LANG4031				3		3	
Area Courses (At least 4 courses from the specified elective list , of which at least 2							
COMP/ELEC Courses should be taken infinitione single area and at least 2 courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective requirement.)			4	4	4	15	
Required credits for Major Requirements Courses and Electives 59-63						62	
BBA in Finance School Requirements							
ACCT 2010 Principles of Accounting I 3 3						3	
Note: ECON 2103 OR ECON 2113	3					3	
ECON 2103 Principles of Microeconomics 3 3							
ECON 2123 Macroeconomics 3 3 ECON 3123 ECON 3123						3	
FINA 2303 Financial Management 3 3 3						3	FINA 2303 is a major pre-requisite
ISOM 2010 Introduction to Information Systems 3 ISOM 2020 Coding for Business 1 1 1 1						1	Substituted by COMP 1021/1022P
ISOM 2500 Business Statistics 3 3 ISOM 2600 Introduction to Business Analytics 1 1 1					 	3	
ISOM 2700 Operations Management 3	3					3	
MARK 2120 Marketing Management 3 3 MGMT 2010 Business Ethics and the Individual 2			2			3	
MGMT 2110 Organizational Behavior 3 3 MGMT 2130 Business Ethics and Social Responsibility 2				2		3 2	
SBMT 1111 Business Student Induction 0 </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>0</td> <td>Waived for DDP students</td>			-			0	Waived for DDP students
LABU 2040 Business Case Analyses 3 3 LABU 2060 Effective Communication in Business 3 3	3					3	
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
MATH 1012 Calculus IA MATH 1013 Calculus IB MATH 1020 Accelerated Calculus 4 (3) (3) (4)						0	or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both
MATH 1023 Honors Calculus I 3						39	BEng and BBA degrees
Required credits for School Requirements 43-44 Major Requirements							<u> </u>
	1						1
Major Required Courses and Electives					\vdash	3	
Major Required Courses and Electives FINA 3001 Key Skills for Finance Professionals (A) 1 1 1 FINA 3103 Intermediate Investments 3 3 3		·	3			3	
FINA 3001 Key Skills for Finance Professionals (A) 1 1 FINA 3103 Intermediate Investments 3 3 FINA 3203 Derivative Securities 3						3	
FINA 3001 Key Skills for Finance Professionals (A) 1 1 FINA 3103 Intermediate Investments 3 3 FINA 3203 Derivative Securities 3 FINA 3303 Intermediate Corporate Finance 3		3					
FINA 3001 Key Skills for Finance Professionals (A) 1 1 FINA 3103 Intermediate Investments 3 3 FINA 3203 Derivative Securities 3 3 FINA 3303 Intermediate Corporate Finance 3 3 FINA 3810 Bloomberg Market Concepts Certification 0 0 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 0		3			l 1	3	
FINA 3001 Key Skills for Finance Professionals (A) 1 1 FINA 3103 Intermediate Investments 3 3 FINA 3203 Derivative Securities 3 3 FINA 3303 Intermediate Corporate Finance 3 3 FINA 3810 Bloomberg Market Concepts Certification 0 0 0 ACCT 3010 Financial Accounting I 3 3 3 ACCT 3020 Financial Accounting I 3 3 3		3					DDP students should take COMP
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 5 FINA 3810 Bloomberg Market Concepts Certification 0 0 0 0 ACCT 3010 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 3 3 4 ACCT 3010 Financial Accounting I 3 3 3 3 4 ACCT 3020 Financial Accounting I 3 3 3 4 ACCT 3030 Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Accounting Intermediate Financial Acc							1022P to satisfy the requirements of
FINA 3001 Key Skills for Finance Professionals (A) 1 3 4<						0	both BEng and BBA degrees
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 0 ACCT 3010 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 ACCT 3020 ACCT 30			3	3	3	0	
FINA 3001 Key Skills for Finance Professionals (A) 1 3 4<			3	3	3		
FINA 3001 Key Skills for Finance Professionals (A) 1			3	3	3	9	
FINA 3001 Key Skills for Finance Professionals (A) 1			3	3	3	9	
FINA 3001 Key Skills for Finance Professionals (A) 1	0		3	3	3	9	
FINA 3001 Key Skills for Finance Professionals (A) 1	0	3				9 22	
FINA 3001 Key Skills for Finance Professionals (A) 1	0	3				9 22 0 0 3	
FINA 3001 Key Skills for Finance Professionals (A) 1	0	3			0	9 22 0 3 3 3 3 0 6 6	
FINA 3001 Key Skills for Finance Professionals (A) 1	0 axcl. free credit	0 0	0		0	9 22 0 0 3 3 3 3 3 0 30	
FINA 3001 Key Skills for Finance Professionals (A) 1 1 1 1 1 1 1 1 1	3	0 0			0	9 22 0 3 3 3 3 0 6 6	
FINA 3001 Key Skills for Finance Professionals (A) 1 1 1 1 1 1 1 1 1	3 excl. free credi 19 186##	0 0	0	0	0	9 22 0 3 3 3 3 0 6 6	

- () indicates the reuse of the same course to fulfill more than one requirement.
 --- denotes the course/requirement is either waived or substituted
- ## To graduate, students should complete all requirements as specified for DDP.

<< Declaration of
BEng major</pre>
<< Declaration of
BBA major</pre>

CVFINA (Via DDP PBA)

2020-21 Intake

School:		School of Engineering and School of Business Management				BENG MA		вва тај	-	Stud	ent's Pathy	way			
Program:		Dual Degree Program (BEng in Civil and Environmental Engineering and E Finance)	BBA in												
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	2 (Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Sprin	Sub-total	Remarks
DE 1. 01	The section of the section	A STATE OF THE STA		=	ng	=	ng	<u> </u>	ng	=	ng	=	ng	_	
Major Require		onmental Engineering													
	damental Courses														
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4 3					į							DDP students should take COMP
COMP COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4		3			į						3	1022P to satisfy the requirements of both BEng and BBA degrees
ENGG	1010	Academic Orientation Note: CHEM 1010 OR CHEM 1020	0	0	0			<u> </u>						0	
CHEM CHEM	1010 1020	General Chemistry IB	3	3		!		!						3	
LANG	2030	Technical Communication I	3					3						3	
MATH	1012	Note: ((MATH 1012 OR MATH 1013 OR MATH 1023) ANE (MATH 1014 OR MATH 1024)] OR (MATH 1020)	4-7					!							
MATH MATH MATH	1012 1013 1014	Calculus IA Calculus IB	3	3	3			! :						6	
MATH MATH	1020 1023	Calculus II Accelerated Calculus Honors Calculus I	4 3					!							
MATH MATH	1024 2011	Honors Calculus I Introduction to Multivariable Calculus	3			3		<u>!</u>						3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3		<u> </u>						3	
PHYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3	3				:						3	
PHYS	1312	Honors General Physics Required credits for Engineering Fundamental Courses	22-26					<u>:</u>						24	
	Courses and Electiv	es		1	1	·	_		1				1	I -	
CIVL	1010 1100	Academic Professional Development I Discovering Civil and Environmental Engineering	3		3	0	0	i						3	
CIVL	2010 2020	Academic Professional Development II Industrial and BIM Training	0			0*	0	0	0					0	
CIVL	2110	Statics	3			3	U	1						3	
CIVL	2120 2160	Mechanics of Materials Modeling Systems with Uncertainties	3	<u> </u>		3	3	<u> </u>						3	
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410 2510	Environmental Assessment and Management Fluid Mechanics	3		 	<u> </u>	3	!				<u> </u>		3	
CIVL	2810	Construction Materials	3				Ť	3						3	
CIVL	3010 3020	Academic Professional Development III Internship Training	0	-		<u> </u>		<u>i</u> —		0	0^			0	
CIVL	3210	Note: CIVL3210 OR CIVL3610 Introduction to Construction Management	3					ļ i	3					3	
CIVL	3610	Traffic and Transportation Engineering	3	 		<u>. </u>		<u>ļ</u>							
CIVL	3310 3320	Structural Analysis Reinforced Concrete Design	3	E				3	3	<u> </u>		<u> </u>		3	
CIVL	3420 3510	Water and Wastewater Engineering	3					3	3					3	
CIVL	3730	Hydrosystems Engineering Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design Note: CIVL 4910 OR CIVL 4920	3					!			3			3	
CIVL CIVL	4910 4920	Civil and Environmental Engineering Final Year Project Civil and Environmental Engineering Final Year Thesis	6					!				3	3	6	
CIVL	4950	Civil Engineering Capstone Design Project	3					:				3		3	
CIVL	4450	Note: CIVL4450 OR CIVL 5450 OR CIVL5460 Carbon Footprint Analysis and Reduction	3					:						2	
CIVL CIVL	5450 5460	Hazardous Waste Treatment and Site Remediation Landfill Engineering and Design	3					:			3			3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4033	Technical Communication II for Civil and Environmental Engineering CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted"	3					<u>: </u>				3		3	
		Electives".]													
CIVL/SENG		Restricted electives: at least 1 course AND (CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted Elective	s" 6					i				3	3	6	
		from the list OR SENG: Any 3000-level or above courses offered by the Engineering School or engineering				i		i							
	Rea	departments other than CIVL) uired credits for Major Requirements Courses and Electives	66			<u> </u>		<u> </u>						66	
BBA in Fina	ance	•	•			_				•		•	•		
School Requi		L		1			1		1		1		1		
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3			3		i	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			3		<u> </u>						3	
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3					<u>i </u>						_	
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3					3						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
ISOM	2020 2500	Coding for Business Business Statistics	1				1							0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1						1		-			1	Gazonated by GIVE 2100
ISOM MARK	2700 2120	Operations Management Marketing Management	3	<u> </u>			3	!	3	-		<u> </u>	-	3	
MGMT	2010	Business Ethics and the Individual	2			2	3	:						2	
MGMT MGMT	2110 2130	Organizational Behavior Business Ethics and Social Responsibility	3	<u> </u>	3	!		!			2	ļ		3 2	
SBMT	1111	Business Student Induction	0			-		-	-					0	Substituted by ENGG 1010
LABU LABU	2040 2060	Business Case Analyses Effective Communication in Business	3	E				<u> </u>	L	3		L	3	3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4 3					:							DDP students should take MATH
MATH MATH	1012 1013	Calculus IA Calculus IB	4	(3)				:		Ì		ĺ		0	1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4	L	L		L	i	L	Ĺ	L	Ĺ			requirements of both BEng and BBA degrees
	•	Required credits for School Requirements	43-44					<u> </u>						36	
Major Required C	ements Courses and Electiv	es													
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA FINA	3103 3203	Intermediate Investments	3	<u> </u>	ļ	-		3			_	ļ		3	
FINA	3203	Derivative Securities Intermediate Corporate Finance	3	\vdash		<u> </u>		i		3	3			3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3					į		3			1	3	
ACCT ACCT	3020 3030	Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3	L			L	<u>i</u>					<u> </u>		
ISOM/COMP ISOM	3230	Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P Business Applications Programming	3					į						_	DDP students should take COMP
ISOM COMP	3400 1022P	Python Programming for Business Analytics Introduction to Computing with Java	3		(3)	į		į		Ì		ĺ		0	1022P to satisfy the requirements of both BEng and BBA degrees
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9					Ĺ	L		3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28					<u> </u>						22	
	Requirement														
Requirements Required Courses	s for Dual Degr	ee Program													
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving Required credits for Additional Requirements	3		3	!		!				<u> </u>		3	
University CC	RE														
CORE	C3 - C12 C1 & C2	U CORE - Others U CORE - English Language	30 6	6	3			!	3	6	6	3	6	30 6	
JOINE	01 W 02	Sub-total for University CORE		3	3			!						36	
				18	18	20	19	Term load 19	(excl. free cr	edits) 18	20	18	18		
								_	187##	10		-10]	
						Doolo	ation of	<< Decla	ration of						

**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.

An Example on Student's Pathway

<u>DAFINA</u> 2020-21 Intake (Via DDP PBA)

School of Engineering and School of Business Management Student's Pathway Oual Degree Program (BEng in Decision Analytics and BBA in Finance) rogram: Remarks urse Code Course Title / Courses List **BEng in Decision Analytics** Major Requirements Engineering Fundamental Courses Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ DDP students should take COMP 1022P to satisfy the equirements of both BEng and BBA degrees Academic Orientation 0 Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 HEM General Chemistry IA General Chemistry IB General Physics I with Calculus Honors General Physics I 3 ANG Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 4-7 Calculus IA Calculus IB Calculus II 3 6 MATH 2011 Introduction to Multivariable Calculus 3 3 3 MATH 2111 Matrix Algebra and Applications 3 3 3 Engineering Introduction course (If the students take an introduction course included in their course can be counted towards their major requirement.) 3-4 0 (3) Required credits for Engineering Fundamental Courses 22-27 21 Major Required Courses and Electives 1010 Academic and Professional Development I 0 0 Academic and Professional Development II IEDA 1020 Note: IEDA1990 OR IEDA1991 0 0 0 0 0 0 0 0 0 Industrial Training IEDA 1991 Industrial Experience IEDA Probaility for Engineers 3 Statistics for Engineers Substituted by ISOM2500 IEDA 0 Prescriptive Analytics Engineering Economics and Accounting 3 3 IEDA Stochastic Models 3 3 IEDA 3300 Industrial Data Systems 3 IEDA 3560 Predictive Analytics 3 3 ote: IEDA4901 OR IEDA4920 inal Year Thesis ecision Analytics Final Year Projec 3 6 NGG Engineering Seminar Series 0 0 0 0 Note: ECON2103 OR ECON2113 2103 3 3 inciples of Microeconomics Technical Communication II for Industrial Engineering and Decision Analytics Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from ANG 4032 15 EDA 3 6 3 3 15 Required credits for Major Required Courses and Electives **BBA** in Finance School Requirements nciples of Accounting I ACCT Principles of Accounting II Note: ECON 2103 OR ECON 2113 0 CON 2103 (3) 2113 3 2303 Financial Management 3 3 3 ISOM 2010 ntroduction to Information Systems 3 0 1021/1022P/2011 ISOM Coding for Business Business Statistics 3 Introduction to Business Analytics Operations Management ISOM 2700 3 3 MARK 2120 Marketing Management 3 идмт Business Ethics and the Individual 2 /GMT Organizational Behavior 3 MGMT Business Ethics and Social Responsibility 2 SBMT Business Student Induction Waived for DDP students Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take иатн Calculus and Linear Algebra MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to Calculus IA Calculus IB (3) 0 atisfy the requirements of both BEng and BBA degrees Accelerated Calculus Honors Calculus I Required credits for School Requirements 43-44 36 Major Requirements Major Required Courses and Electives Key Skills for Finance Professionals (A) Intermediate Investments 3 FINA Derivative Securities 3 FINA Intermediate Corporate Finance 3 FINA Bloomberg Market Concepts Certification Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 ACCT Financial Accounting II ACCT 3030 Intermediate Financial Accounting for Non-Accounting Majors Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P Business Applications Programming Python Programming for Business Analytics Introduction to Computing with Java (3) FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives 25-28 Additional Requirements Requirements for Dual Degree Program Required Courses 1010 Technology and Management Profes TEMG 3950 Case-based Problem Solving 3 3 Required credits for Additional Requirements 3 University CORE C3 - C12 U CORE - Others C1 & C2 U CORE - English Language Sub-total for University CORE 163## < Declaration of BBA () indicates the reuse of the same course to fulfill more than one requirement.

To graduate, students should complete all requirements specified for DDP. *Remarks on course(s):

⁻⁻⁻ denotes the course/requirement is either waived or substitued

<< Declaration of Seng major SBA major

EEFINA 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management				BEng ma	ijor	BBA maj	or .	Student's	s Pathway				
Program:		Dual Degree Program (BEng in Electronic Engineering and BBA in Finance	e)												
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 Ele	ctronic Eng	ineering		_	ßı	<u> </u>	g	!	D)		າິ່ງ	_	າິ່ງ		
Major Require	ements														
Engineering Fund	lamental Courses	Note: ELEC2600 OR ELEC2600H) OR MATH2011 OR MATH2111 OR MATH2350 OR	0.40	11	1	·	1	i	ı		1	1	ı	ı	T
ELEC	2600	MATH 2351 (3 courses out of 6) Probability and Random Processes in Engineering	9-10			i i		i i							
ELEC MATH	2600H 2011	Honors Probability and Random Processes in Engineering Introduction to Multivariable Calculus	4 3	3		3		3						9	
MATH MATH MATH	2111 2350	Matrix Algebra and Applications Applied Linear Algebra and Differential Equations	3			į		į							
MATH	2351	Introduction to Differential Equations	3			<u>į </u>		<u>į </u>							
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3		3	!		!						3	DDP students should take CON 1022P to satisfy the requirement
COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3			4		<u> </u>						4	both BEng and BBA degrees
ENGG	1010	Academic Orientation	0	0	0			<u>i</u>						0	
LANG	2030	Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	3 4-7			!		!	3					3	
MATH	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4			!		!							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	! :		! :						6	
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			i		i							
MATH	1024	Honors Calculus II Note: PHYS1112 OR PHYS1312	3			 		 							
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3	3		į		į						3	
PHYS	1114	Note: PHYS1114 OR PHYS1314 General Physics II	3		3	!		!						3	
PHYS	1314	Honors General Physics II	3	1	<u> </u>	!		!						<u> </u>	
SENG		Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.)	3-4		(3)	i		i						0	
	<u>i</u>	Required credits for Engineering Fundamental Courses	S 32-37			<u>† </u>		<u>† </u>						31	
Major Required C	ourses and Electi	Ves Introduction to Electro-Robot Design	4			4		:	1					4	
ELEC	1200	A System View of Communications: from Signals to Packets	4	1	1	+	4	!						4	
		Note: ELEC2100 OR ELEC2100H		1	1	i		i							
ELEC ELEC	2100 2100H	Signals and Systems Honors Signals and Systems	4			<u>i </u>		<u>i </u>		4				4	
ELEC ELEC	2350 2400	Introduction to Computer Organization and Design Electronic Circuits	4			<u> </u>		<u> </u>	4	4				4	
ELEC	2910	Academic and Professional Development I	0			0	0	į						0	
ELEC	3910	Academic and Professional Development II Note: (ELEC4900 AND ELEC2991) OR (ELEC4901 AND ELEC2991) OR ELEC4910	6			<u> </u>		0	0					0	
ELEC	4900	(Students taking the Research Option must take ELEC 4901) Final Year Design Project	6			!		!				3	3	6	
ELEC ELEC	4901 2991	Final Year Thesis Industrial Experience (Electronic Engineering)	6 0			i		i				3	3	0	
ELEC ENGG	4910 2010	Co-op Program Engineering Seminar Series	6			0	0	0	0					0	
LANG	4031	Technical Communication II for ECE & CPEG	3						Ť			3		3	
ELEC		ELEC 3000-level or 4000-level Electives (Any 2 courses ELEC 4000-levek courses. ELEC4940 cannot be used to count towards this elective requirement)	21			ļ	3	ļ	3		6	3	6	21	
BBA in Fina		quired credits for Major Requirements Courses and Electives	S 50	1		<u> </u>		<u> </u>						50	
School Requi															
ACCT	2010	Principles of Accounting I	3			3		Į.						3	
ACCT	2200	Principles of Accounting II Note: ECON2103 OR ECON2113	3			<u> </u>		<u> </u>	3					3	
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3			3		<u> </u>						3	
	2422	Note: ECON2123 OR ECON3123	2			i		i 3						3	
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3			<u>i </u>		3						3	
FINA	2303	Financial Management	3			<u>į</u>	3	į						3	FINA 2303 is a major pre-requis
ISOM	2010 2020	Introduction to Information Systems Coding for Business	3					1						0	Substituted by COMP 1021/102
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600 2700	Introduction to Business Analytics Operations Management	1			<u> </u>		1 3						1 3	
MARK	2120	Marketing Management	3			<u>i</u>	3	i						3	
MGMT MGMT	2010	Business Ethics and the Individual Organizational Behavior	3			! 	3	2						2	
MGMT	2130	Business Ethics and Social Responsibility	2					<u> </u>	2					2	
SBMT LABU	1111 2040	Business Student Induction Business Case Analyses	3				3							3	Waived for DDP students
LABU	2060	Effective Communication in Business	3					3						3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4	(3)		i		i							DDP students should take MAT 1012 or MATH 1013 or MATH 10
MATH MATH	1012 1013	Calculus IA Calculus IB	3			i		i						0	or MATH 1023 to satisfy the requirements of both BEng and E
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			<u>į </u>		<u>į </u>							degrees
Major Require	monts	Required credits for School Requirements	S 43-44			Ī		Ī						39	
	ourses and Electi	ves													
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA FINA	3103 3203	Intermediate Investments Derivative Securities	3	-			-	3			3	-		3	
FINA	3303	Derivative Securities Intermediate Corporate Finance	3	1		<u> </u>	 	 		3	3			3	
FINA	3810	Bloomberg Market Concepts Certification	0			<u> </u>		0						0	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3			!		!		3				3	
ACCT ACCT	3020 3030	Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3			į		!		3				3	
ISOM/COMP ISOM	3230	Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P Business Applications Programming	3		İ	į		i							DDP students should take COM
ISOM COMP	3400 1022P	Business Applications Programming Python Programming for Business Analytics Introduction to Computing with Java	3 3		(3)	i		i						0	1022P to satisfy the requirement both BEng and BBA degrees
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9	1	1	i 		i 			3	3	3	9	
	<u>.</u>	Required credits for Major Required Courses and Electives	S 25-28	1		<u>i </u>		!						22	
	Requirement														
	for Dual Deg	ree Program													
Required Courses	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving	3		3	-		-						3	
University CO	RE	Required credits for Additional Requirements	S 3		1	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	L	<u> </u>	3	ļ
CORE	C3 - C12	U CORE - Others	30	6	3	<u>į</u>		<u>į</u>	3	6	6	3	3	30	
CORE	C1 & C2	U CORE - English Language Sub-total for University CORE	6 36	3	3	<u> </u>	<u> </u>	<u> </u>						6 36	
		Cas total is similarly conte		1	1	1 .		Term load (ex					1		•
				18	18	20	19	20 18	18 1##	20	18	15	15	ĺ	
Notes:								<< Decla	ration of						
						BEng ma	ijor	BBA maj	or						

() indicates the reuse of the same course to fulfill more than one requirement. --- denotes the course/requirement is either waived or substituted $\ensuremath{^{\text{.}}}$ To graduate, students should complete all requirements as specified for DDP.

>> 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.

An Example on Student's Pathway

<u>IEFINA</u> 2020-21 Intake (Via DDP PBA)

<< Declaration of
<< Declaration of
BEng major
BBA major</pre>

School of Engineering and School of Business Management Student's Pathway School: Dual Degree Program (BEng in Industrial Engineering and Engineering rogram: Management and BBA in Finance) Year 3 Fall Year Remarks Course Title / Courses List Course Code Offering Dept. 1 Fall BEng in Industrial Engineering and Engineering Management Major Requirements Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science Introduction to Computing with Java DDP students should take COMP 022P to satisfy the requirements both BEng and BBA degrees Programming with C++ ENGG 0 Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 CHEM General Chemistry IA НЕМ General Chemistry IB 3 General Chemistry in General Physics I with Calculus Honors General Physics I Technical Communication I
Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND
(MATH 1014 OR MATH 1024)] OR [MATH 1020] LANG 2030 3 3 3 Calculus IA Calculus IB 1013 3 3 6 MATH 1014 Calculus II MATH Honors Calculus I Honors Calculus II MATH 2011 Introduction to Multivariable Calculus MATH Matrix Algebra and Applications 3 3 Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) SENG (3) 0 Required credits for Engineering Fundamental Courses 21 Major Required Courses and Electives IEDA 1010 Academic and Professional Development I 0 IEDA 1020 Academic and Professional Development II 0 0 Note: IEDA1990 OR IEDA1991 0 Industrial Training Industrial Experience IEDA Probability for Engineers 3 Substituted by ISOM2500 IEDA 2540 Statistics for Engineers 3 0 3 3 3010 Presciptive Analytics 3 IEDA Engineering Economics and Accounting 3230 3 3 3 Stochastic Models IEDA Industrial Data Systems 3 This course will also be used to IEDA 4100 Integrated Production Systems 3 3 3 substitute ISOM 2700 System Simulation IEDA 4130 3 3 3 4901 6 6 3 6 3 Industrial Engineering and Engineering Management Final Year Project Engineering Seminar Series IEDA Note: ECON 2103 OR ECON 2113 3 3 Technical Communication II for Industrial Engineering and Decision Analytics Industrial Engineering Electives (Courses from the specified 21 LANG 4032 3 3 3 IEDA 21 6 3 3 21 3 6 ective list, of which at least 15 credits should be taken from 1 of the 2 areas and at least 6 credits outside that area.) Required credits for Major Requirements Courses and Electives 54 **BBA** in Finance School Requirements ACCT Principles of Accounting I Principles of Accounting II (3) **ECON** 2113 ote: ECON 2123 OR ECON 3123 3 3 Macroeconomic Theory I 3123 FINA 2303 Financial Management 3 FINA 2303 is a major pre-requisite ISOM 2010 Introduction to Information Systems Substituted by COMP 1021/1022I 3 Coding for Business This course will also be used to ISOM 3 2500 Business Statistics 3 3 substitute IEDA2540 ISOM 2600 Introduction to Business Analytics 1 1 Substituted by IEDA 4100 ISOM 2700 Operations Management 3 0 Marketing Management MARK 2120 3 3 MGMT Business Ethics and the Individual 2 MGMT Organizational Behavior Business Ethics and Social Responsibility MGMT 2130 2 2 Waived for DDP students SBMT 1111 Business Student Induction 0 0 Business Case Analyses LABU 2040 LABU 2060 Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA 3-4 3 4 DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the equirements of both BEng and BBA 1003 1012 1013 (3) 0 Calculus IB Accelerated Calculus degrees Honors Calculus I Required credits for School Requirements 43-44 33 Major Requirements Major Required Courses and Electives 3001 Key Skills for Finance Professionals (A) Intermediate Investments FINA 3203 Derivative Securities 3 3 3 FINA 3303 Intermediate Corporate Finance 3 3 3 Bloomberg Market Concepts Certification FINA 3810 0 0 0 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 ISOM/COMP Note: ISOM 3230 OR ISOM 3400 OR COMP 1022F DDP students should take COMP 3230 3400 (3) 9 INA FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activitie Required credits for Additional Requirements **University CORE** U CORE - Others U CORE - English Language Sub-total for University CORE 36 18 18 18 18 18 17 18 18 14

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

--- denotes the course/requirement is eitner waived or substituted
To graduate, students should complete all requirements as specified for DDP.

<< Declaration of |<< Declaration of |
BEng major BBA major</pre>

An Example on Student's Pathway

<< Declaration of << Declaration of

MEFINA 2020-21 Intake

BEng major BBA major School: School of Engineering and School of Business Management Student's Pathway rogram: Dual Degree Program (BEng in Mechanical Engineering and BBA in Finance) Remarks Offering Dept. Course Code Course Title / Courses List course code prefix) BEng in Mechanical Engineering **Major Requirements** Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science Introduction to Computing with Java DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees COMP COMP 2011 Programming with C++ ENGG 1010 0 Academic Orientation 0 0 0 LANG 2030 Technical Communication I 3 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] иатн 1012 Calculus IB 3 MATH 1024 Honors Calculus II ЛАТН 2011 Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications
Applied Linear Algebra and Differential Equations
Introduction to Differential Equations MATH 2111 3 3 Note: PHYS1112 OR PHYS1312 3 3 CHEM/LIFS/ PHYS cience 1000-level course (Any 1 course of the subject and level as specified) (3) 0 Required credits for Engineering Fundamental Courses 22-26 21 Major Required Courses and Electives Industrial Training 0^ MECH 2020 Statics and Dynamics 3 3 3 Solid Mechanics I 3 3 3 2210 Fluid Mechanics MECH 3 3 3 3 3 Engineering Materials I 3 месн 2520 Design and Manufacturing I 3 3 3 Mechatronic Design and Prototyping 3 3 3030 MECH Mechanisms of Machinery 3 3 Note: MECH3300 OR MECH3420 OR MECH3520 3 3 3 Energy Conversion Engineering Materials II 3 3 MECH MECH 3420 esign and Manufacturing II MECH 3310 Heat Transfer 3 MECH Control Principles 3 MECH 3630 Electrical Technology 3 MECH 3830 3 3 6 6 MECH 4900 Final Year Design Project ELEC 2420 3 3 ENGG 0 Engineering Seminar Series 4034 Technical Communication II for Mechanical and Areospace Engineerin Required credits for Major Requirements Courses and Electives 51 **BBA** in Finance School Requirements Principles of Accounting I Principles of Accounting II ACCT 2200 Note: ECON 2103 OR ECON 2113 2103 3 3 ECON Principles of Microeconomics 2113 Note: ECON 2123 OR ECON 3123 ECON 2123 3 3123 Macroeconomic Theory nancial Management FINA 2303 is a major pre-requisite ISOM ntroduction to Information Systems 3 0 ISOM 2020 Coding for Business 1 1 1 ISOM 2500 Business Statistics 3 2600 Introduction to Business Analytics Operations Management ISOM MARK 2120 Marketing Management 3 3 MGMT 2010 Business Ethics and the Individual 2 2 MGMT 2110 Organizational Behavior MGMT 2130 Business Ethics and Social Responsibility 2 0 Waived for DDP students Business Case Analyses LABU 2040 LABU 2060 Effective Communication in Business 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH MATH 003 Calculus and Linear Algebra 1012 or MATH 1013 or MATH ИΑТН 012 Calculus IA (3) 1020 or MATH 1023 to satisfy the Calculus IB ments of both BEng and BBA degrees lonors Calculus I Required credits for School Requirements 43-44 39 **Major Requirements** Major Required Courses and Electives Key Skills for Finance Professionals (A) FINA 3103 3 Derivative Securities FINA 3203 3 3 3 FINA 3303 termediate Corporate Finance 3 3 FINA 3810 Bloomberg Market Concepts Certification 0 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 3-6 3010 3 ntermediate Financial Accounting for Non-Accounting Majors ISOM/COMF Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P DDP students should take COMP Business Applications Programming
Python Programming for Business Analytics
Introduction to Computing with Java 3230 (3) FINA 3000-level or above Electives (Anv 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives 25-28 Additional Requirements Requirements for Dual Degree Program Required Cours Technology and Management Professional Activities TEMG Required credits for Additional Requirements University CORE U CORE - English Language Sub-total for University CORE 36 18 18 18 18 18 18 18 14 14 18 < Declaration of << Declaration of Notes

() indicates the reuse of the same course to fulfill more than one requirement.

To graduate, students should complete all requirements as specified for DDP.

*Remarks on course(s):

BEng major

BBA major

^{*} Courses offered in winter term

[^] Courses offered in summer term

⁻⁻⁻ denotes the course/requirement is either waived or substituted

>> 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.

An Example on Student's Pathway

BEECON 2020-21 Intake (Via DDP PBA)

School: School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Bioengineering and BBA in Economics) Remarks ourse Code Course Title / Courses List **BEng in Bioengineering Major Requirements** Engineering Fundamental Courses Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science Introduction to Computing with Java The course will also be used t substitute ISOM 2010 3 Python Programming Bridging Course COMP rogramming with C++ 3 CHEM 1050 Laboratory for General Chemistry I 1 LANG 2030 Technical Communication I 3 3 3 LIFS 1901 General Biology I 3 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 4-7 Note: PHYS 1112 OR PHYS 1312
General Physics I with Calculus
Honors General Physics I
Engineering Introduction course (if the students take an introduction course included in their major, this 3 3 3-4 0 (3) course can be counted towards their major requ Required credits for Engineering Fundamental Courses 23-29 22 Major Required Courses and Electives Note: BIEN 1010 OR CENG 1000 3 3 Introduction to Chemical and Biiological Engineering CENG 2310 Modeling for Chemical and Biological Engineering 3 3 Cellular and Systems Physiology for Engineers BIEN 410 3 3 BIEN 610 Chemical Biology for Engineers 3 3 BIEN 2990 Academic and Professional Development I 1 1 BIEN 3240 Transport Phenomena in Biological Systems 3 3 Data Science for Biology and Medicine BIEN 3320 3 3 Introduction to Bioinstrumentation and Bioimaging BIEN 410 3 3 BIEN 3910 4 4 4 Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 BIEN Bioengineering Capstone Design Bioengineering Thesis Research 3 6 1940 Bioengineering Industrial Project BIEN Academic and Professional Development II BIEN 990 CENG 210 Chemical and Biological Engineering Thermodynamics 3 3 3 Chemical and Biological Reaction Engineering 3 ENGG 0 0 Note: LIFS 3150 OR MATH 2411 IFS 150 3 3 MATH Applied Statistics Technical Communication II for Chemical and Biological Engineering ANG 1035 15 Required credits for Major Required Courses and Electives 60-61 60 **BBA** in Economics School Requirements Principles of Accounting I ACCT Principles of Accounting II 3 3 3 Note: ECON 2103 OR ECON 2113 3 3 CON 2103/2113/2123 is a ma Note: ECON 2123 OR ECON 3123 123 3 3 ECON 123 Macroeconomic Theory Financial Management SOM 010 Introduction to Information Systems 3 0 1021/1022P/COMP2011 Substituted by COMP SOM 020 Coding for Business 1 0 ISOM 500 Business Statistics 3 0 LIFS 3150/MATH 2411 Substituted by SOM 600 Introduction to Business Analytics 0 BIEN3320 ISOM 700 Operations Management 3 3 120 Marketing Management 3 3 Business Ethics and the Individual 2 130 Business Ethics and Social Responsibility 2 2 111 Business Student Induction Substituted by ENGG 1010 ABU 040 Business Case Analyses ABU Effective Communication in Business 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023
Calculus and Linear Algebra
Calculus IA
Calculus IA
Accelerated Calculus
Honors Calculus I DDP students should take MAT 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees Required credits for School Requirements 43-44 34 Major Requirements Major Required Courses and Electives Managerial Microeconomics CON 334 Introduction to Econometrics onomics Research and Communication 670 0 ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements University CORE 3 - C12 U CORE - Others 30 30 U CORE - English Language Sub-total for University CORE 36 19 178## << Declaration of BEng major << Declaration of BBA major Notes:

() indicates the reuse of the same course to fulfill more than one requirement.

--- denotes the course/requirement is either waived or substitued

^[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

^{##} To graduate, students should complete all requirements specified for DDP

>> 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.

BTECON 2020-21 Intake (Via DDP PBA)

<< Declaration of BEng major BBA major

BEng major School of Science and School of Business Management Student's Pathway Dual Degree Program (BSc in Biotechnology and BBA in General Business Management) rogram: Remarks į Course Code Course Title / Courses List BSc in Biotechnology School Requirements Science School Induction

Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science
Introduction to Computing with Java
Programming with C++ 1021 1022P This course will be used to substitute ISOM 2010 3 3 COMP 2011 ocience i cumation courses to courses mon the specimed releave list, cataleris smooth.

Aleke (i) 7 foundation lecture courses, including at least 1 lecture course, but no more that lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laborate. Chemistry in Everyday Life General Chemistry IA General Chemistry IB 1004 1010 1020 1030 1050 1055 General Chemistry II Laboratory for General Chemistry I Laboratory for General Chemistry II CHEM 1030 1901[@] LIFS General Biology I®
General Biology II®
Laboratory for General Biology I
Laboratory for General Biology I
Nature of Life Sciences 1902[®] 1903 1904 1930 2210 LIFS1901 & LIFS1902 are Major 10 Biochemistry I Calculus IA
Calculus IB
Calculus II
Accelerated Calculus
Honors Calculus I
Honors Calculus II MATH MATH MATH MATH Multivariable Calculus 2121 2131 Linear Algebra Honors in Linear and Abstract Algebra I 1001 1111 1112 1113 1114 1115 Physics and the Modern Society General Physics I General Physics I with Calculus Laboratory for General Physics I General Physics II Laboratory for General Physics II Required credits for School / Major Pre-requisite Requirements 25-29 Major Requirements Major Required Courses and Elective Laboratory for General Biology I _aboratory for General Biology II Cell Biology 3 3 ntroduction to Biotechnology 2080 Plant Biology Biochemistry I (3) 3 3 Biotechnological Application of Recombinant DNA Techniques 3 3 LIFS 4150 Plant Biotechnology 3 3 Plant Biotechnology
Concepts and Issues in Contemporary Biotechnology
Note: LIFS4983 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983)
(Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.)
Biotechnology Capstone Project
Biotechnology Project Research I
Biotechnology Project Research I
IRE Research Project II
Note: CHEM1010 OR CHEM1020 [3] 3 010 020 (3) 0 CHEM General Chemistry II (3) CHEM CHEM Laboratory for General Chemistry II 1 Note: CHEM 2110 OR CHEM 2311 3 3 CHEM 2110 3 Organic Circliniary I Analytical Chemistry Note: CHEM2155 OR CHEM2355 Fundamental Organic Chemistry Laboratory CHEM 1 1 CHEM 155 1 CHEM Fundamental Analytical Chemistry Laborato echnology and Its Business Opportunities 3 LANG 3024 Science Communication in English (Life Science) 3 3 3 Siotechnology Electives (Courses from the specified elective list; Students following IRE frack are required to take a minimum of 15 credits; while others a minimum of 18 credits Courses taken as Major/Track Required Courses may not be counted towards the elective provisions and the country of the coun .IFS/BIPH/BTEC/BIEN/ 15 Required credits for Major Required Courses and Electives 62-70 56 **BBA** in Economics School Requirements Principles of Accounting I Principles of Accounting II 3 Note: ECON 2103 OR ECON 2113 Principles of Microeconomics 3 3 ECON 2103/2113/2123 is a majo Note: ECON 2123 OR ECON 3123 3 3 CON 2123 3 ECON 3123 Macroeconomic Theory I Financial Management 3 ISOM 2010 ntroduction to Information Systems 0 Coding for Business Business Statistics 3 ntroduction to Business Analytics ISOM ISOM MARK 2120 Marketing Management 3 3 MGMT Business Ethics and the Individual MGMT 2110 Organizational Behavior 3 3 3 1111 usiness Student Induction 0 Waived for DDP students Effective Communication in Business
Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023
Calculus and Linear Algebra
Calculus IA
Calculus IA LABU (3) ccelerated Calculus Honors Calculus I Required credits for School Requirements 43-44 Major Requirements Maior Regui CON Managerial Microeconomics ECON 3024 Managerial Macroeconomics 4 ECON 3334 ntroduction to Econometrics 4 4 ECON 4670 Economics Research and Communication 0 0 0 ECON 4000-level Electives (Any 3 courses of the subject and level as specified) CON 11 11 Required credits for Major Required Courses and Electives 23 23 Additional Requirements Requirements for Dual Degree Program Technology and Management Professional Activities Required credits for Additional Requirements **University CORE** U CORE - Others U CORE - English Language Sub-total for University CORE 36 36 << Declaration of

Notes:

@ Course that students need to complete before enrolling into respective major/programs

() indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office. - denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

BEng major

BBA major

>> 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.

An Example on Student's Pathway

<< Declaration of << Declaration of

BBA major

BEng major

CEECON 2020-21 Intake (Via DDP PBA)

School: School of Engineering and School of Business Management Student's Pathway rogram: Dual Degree Program (BEng in Chemical Engineering and BBA in Economics) Remarks Offering Dept. course code prefix) Course Code Course Title / Courses List **BEng in Chemical Engineering** Major Requirements ngineering Fundamental Courses Note: COMP 1021 OR COMP 1022P OR COMP 2011 This course will also be used to substitute ISOM 2010 OMF ntroduction to Computing with Java COMP 2011 Programming with C++ NGG Academic Orientation Note: CHEM1010 OR CHEM1020 General Chemistry IA 1010 3 3 3 General Chemistry IB Technical Communication I
Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND ANG 2030 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH 1012 Calculus IB 3 MATH 024 Honors Calculus II Note: PHYS 1112 OR PHYS 1312 PHYS 1112 3 3 Required credits for Engineering Fundamental Courses 19-23 21 Major Required Courses and Electives 3 CENG ntroduction to Chemical and Biological Engineering CENG 500 A First Course on Materials Science and Applications lote: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities introduction to Environmental Engineering Introduction to Biomedical Engineering CENG 1010 Academic and Professional Development I 0 CENG 980 Industrial Training 0 0 0 0 0 Process and Product Design Principles CENG 2110 3 CENG Chemical and Biological Engineering Thermodynamics 3 Process Fluid Mechanics CENG 2310 Modeling for Chemical and Biological Engineering 3 CENG 3110 Process Dynamics and Control 3 3 CENG 3150 Integrated Chemical Process & Product Design 5 5 CENG 3 Heat and Mass Transfer CENG 3230 Chemical and Biological Reaction Engineering CENG 3950 Chemical and Environment Engineering Laboratory 4 4 CENG 4020 Academic and Professional Development II 0 0 Note: CENG4920 OR CENG4930 OR CENG4940 Chemical Engineering Capstone Design Chemical Engineering Thesis Research 3 ENG CENG 4940 Chemical Engineering Industrial Project Engineering Seminar Series СНЕМ 1050 Laboratory for General Chemistry I СНЕМ 2111 Fundamentals of Organic Chemistry 3 3 3 CHEM 2155 Fundamental Organic Chemistry Laboratory Technical Communication II for Chemical and Biological Engineering LANG 3 Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers Chemical Biology for Engineers General Biology I ENG/SSCI/ENVR CENG Elective (12 credits from specified elective list) 12 12 Required credits for Major Requirements Courses and Electives 68 68 **BBA** in Economics School Requirements Principles of Accounting I ACCT 2200 Principles of Accounting II Note: ECON 2103 OR ECON 2113 ECON Principles of Microeconomics 3 ECON 2103/2113/2123 is a majo Note: ECON 2123 OR ECON 3123 123 3 3 CON CON 3123 Macroeconomic Theory I 2303 Financial Management Substituted by COMF SOM 2010 Introduction to Information Systems 3 0 1021/1022P/COMP2011 ISOM 2020 Coding for Business ISOM 2500 3 ISOM 2600 Introduction to Business Analytics 1 1 ISOM 2700 Operations Management 3 3 2120 Marketing Management 3 3 Organizational Behavior MGMT 2110 IGM1 2130 Business Ethics and Social Responsibility 2 2 Business Student Induction SBMT 1111 0 0 Waived for DDP students ABU Business Case Analyses 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH иатн 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees (3) Accelerated Calculus Honors Calculus I MATH Required credits for School Requirements 45-46 39 Major Requirements Major Required ourses and Electives Managerial Microeconomics CON 3014 ECON 3024 Managerial Macroeconomics Introduction to Econometrics CON 3334 CON 4670 Economics Research and Communication 0 ECON ECON 4000-level Electives (Any 3 courses of the subject and level as specified) 11 Required credits for Major Required Courses and Electives 23 23 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities Required credits for Additional Requirements **University CORE** C3 - C12 U CORE - English Language Sub-total for University CORE 36 Term load (excl. free credits) 19 20 << Declaration of << Declaration of Notes: BEng major BBA major

() indicates the reuse of the same course to fulfill more than one requirement.

^[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office

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.

>> 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

<< Declaration of dec

CIECON 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management		1		BEng ma	7	BBA maj	<u>. </u>	Student's	s Pathway				
		3 3 3													
Program:		Dual Degree Program (BEng in Civil Engineering and BBA in Economics	i)												
					~		~				~		~		Domonico
Course			Š	Year	Year 1 Spring	Yea	ear (Yea	(ear	Yea	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	1 Sp	Year 2 Fall	r 2 Spring	Year 3 Fall	3 Spring	Year 4 Fall	4 Sp	r 5 F	5 Sp	o-tot	
(a⊨	ring	≅	ring	<u>≅</u>	ring	a≝	ring	a⊨	ring	al	
	/il Engineeri	ng													
Major Require															
Engineering Fund	damental Courses	Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4	1		:		•						1	T
COMP	1021	Introduction to Computer Science	3		3	!		!						3	This course will be used to
COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4			!		!							substitute ISOM 2010
ENGG	1010	Academic Orientation Note: CHEM 1010 OR CHEM 1020	0	0	0	<u>:</u>		<u>:</u>						0	
СНЕМ	1010	General Chemistry IA	3	3		i		i						3	
CHEM LANG	1020 2030	General Chemistry IB Technical Communication I	3	1		į		3						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			i		i							
MATH	1012	Calculus IA	4			į		į							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	į		į						6	
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			<u>!</u>		ļ							
MATH MATH	1024 2011	Honors Calculus II Introduction to Multivariable Calculus	3			3		<u> </u>						3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3		!						3	
PHYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3	3		! :		! :						3	
PHYS	1312	Honors General Physics I	3			!		!						0.4	
Major Required C	Courses and Electiv	Required credits for Engineering Fundamental Courses /es	22-26	II .			L	<u> </u>					<u> </u>	24	
CIVL	1010	Academic Professional Development I	0			0	0	i						0	
CIVL	1100 2010	Discovering Civil and Environmental Engineering Academic Professional Development II	3	-	3	i	-	0	0					3	
CIVL	2020	Industrial and BIM Training	0			0*	0	Ţ	Ľ					0	
CIVL	2110	Statics Mechanics of Materials	3			3	2	<u> </u>						3	
CIVL	2120	Mechanics of Materials Modeling Systems with Uncertainties	3	1		3	3	i	 					3	This course will also be used to
CIVL	2170	Infrastructure Systems Engineering and Management	3				3	<u> </u>	1					3	substitute ISOM 2500
CIVL	2410	Environmental Assessment and Management	3				3	 						3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810 3010	Construction Materials Academic Professional Development III	3			<u>!</u>	1	3	1	0	0			3	
CIVL	3020	Internship Training	0								0^			0	
CIVL	3210 3310	Introduction to Construction Management Structural Analysis	3	-		<u> </u>	<u> </u>	3	3					3	
CIVL	3320	Structural Analysis Reinforced Concrete Design	3			<u> </u>			3					3	<u> </u>
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3610 3730	Traffic and Transportation Engineering Fundamentals of Geotechnics	3			 		i –	3	3				3	
CIVL	3740	Geotechnical Analysis and Design	3			<u> </u>		<u> </u>			3			3	
CIVL	4910	Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project	6			į		į				3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6			<u> </u>		<u>i </u>							
CIVL ENGG	4950 2010	Civil Engineering Capstone Design Project Engineering Seminar Series	3			0	0	0	0			3		3	
LANG	4033	Technical Communication II for Civil and Environmental Engineering	3			<u> </u>		<u> </u>				3		3	
		CIVL Electives (3 courses from the specified elective list) CIVL: Any CIVL courses at 4000-level or above except CIVL 4230				:		1							
CIVL/SENG		SENG: Any 3000-level or above courses offered by the Engineering School or	9			! :		! :			3	3	3	9	
	Regi	engineering departments other than CIVL uired credits for Major Requirements Courses and Electives	66			<u> </u>		<u> </u>						66	
BBA in Eco											J.				
School Requi	rements														
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3			3		i 	3					3	
		Note: ECON 2103 OR ECON 2113				<u> </u>		<u> </u>	3						
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3		3	į		į						3	ECON 2103/2113/2123 is a major
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			3		ì						3	prerequisite
ECON	3123	Macroeconomic Theory I	3			<u>. </u>		<u> </u>							
FINA ISOM	2303	Financial Management	3	 			3	!						3	Substituted by COMP 1021/1022F
ISOM	2020	Introduction to Information Systems Coding for Business	1	 	-	-	-	1	-					1	- 300Mario by GOWIF 102 I/1022F
ISOM	2500	Business Statistics	3											0	Substituted by CIVL 2160
ISOM	2600 2700	Introduction to Business Analytics Operations Management	3			<u>!</u> I	-	<u>!</u> !	3					3	1
MARK	2120	Marketing Management	3			<u> </u>	3	<u> </u>						3	
MGMT	2010	Business Ethics and the Individual	2	_		2		i	<u> </u>					2	
MGMT MGMT	2110 2130	Organizational Behavior Business Ethics and Social Responsibility	3	3		 	 	 	 				2	3	
SBMT	1111	Business Student Induction	0			i		i						0	Waived for DDP students
LABU LABU	2040 2060	Business Case Analyses Effective Communication in Business	3			i	-	i	-	3			3	3	
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4	1		i 		<u>i</u>							DDP students should take MATH
MATH MATH	1003 1012	Calculus and Linear Algebra Calculus IA	3	(3)		ļ	Ì	Į	Ì			ĺ		0	1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the
MATH MATH	1013 1020	Calculus IB Accelerated Calculus	3 4	(0)		!	Ì	Į	Ì			ĺ			requirements of both BEng and
MATH	1023	Honors Calculus I	3			<u> </u>	<u> </u>	!	<u> </u>					20	BBA degrees
Major Require	ements	Required credits for School Requirements	43-44	11	ļ	ı	ь	1		ļ		ļ	ļ	36	ļ
	Courses and Electiv	/es													
ECON	3014	Managerial Microeconomics	4	<u></u>		:		4						4	
ECON ECON	3024 3334	Managerial Macroeconomics	4			<u>:</u>		<u> </u>	4	4				4	
ECON ECON	3334 4670	Introduction to Econometrics Economics Research and Communication	0			<u>!</u>	 	i 	 	4		0		0	
ECON	1	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			<u> </u>		<u> </u>						23	
	Requirement														
	s for Dual Deg	ree Program													
Required Courses	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	T
TEMG	3950	Case-based Problem Solving	3		3				L					3	
	•	Required credits for Additional Requirements	3			! 		<u>. </u>						3	
University CC	ORE C3 - C12	U CORE - Others	30	3	1		<u> </u>	3	T	9	9	3	3	30	T
CORE	C1 & C2	U CORE - Others U CORE - English Language	6	3	3	i		3		9	y	3	3	6	
		Sub-total for University CORE	36	Ţ										36	
				18	18	20	18	erm load (ex	cl. free cred 20	its) 19	19	19	17		
								•	8##						
Notes:						<< Decla BEng ma		<< Decla BBA maj							
() indicates the reuse	o of the same course to	o fulfill more than one requirement.					.,	A IIId)	J.						

^() 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.

>> 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.

The Hong Kong University of Science and Technology

An Example on Student's Pathway

COECON 2020-21 Intake **Interdisciplinary Programs Office** (Via DDP PRA)

> << Declaration of << Declaration of BBA major

BEng major

School School of Engineering and School of Business Management Student's Pathway rogram: Dual Degree Program (BEng in Computer Science and BBA in Economics) Course Title / Courses List course code prefix) **BEng in Computer Science** Major Requirements Engineering Fundamental Courses Note: COMP1021 OR COMP1022P ntroduction to Computer Science ntroduction to Computing with Java This course will also be used to substitute ISOM 2010 ENGG 1010 Academic Orientation 0 0 Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312 Chemistry in Everyday Life General Chemistry IA General Chemistry IB CHEM CHEM CHEM 1004 1010 1020 1901 1001 General Biology I PHYS Physics and the Modern Society PHYS 1112 eneral Physics I with Calculus onors General Physics I LANG 2030 Technical Communication I 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB MATH 1013 3 3 6 MATH 1014 Calculus II MATH 1020 ccelerated Calculus матн 1023 lonors Calculus I MATH 2111 Matrix Algebra and Applications 3 3 Engineering Introduction course (COMP students may also use COMP1022P or COMP1022Q SENG 3-4 0 (3) to fulfill this requirement) Required credits for Engineering Fundamental Courses 19-23 18 Major Required Courses and Electives Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++ Object-Oriented Programming and Data Structures COMP 2012H Honors Object-Oriented Programming and Data Structures Computer Organization Note: COMP2711 OR COMP2711H Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Scien ОМР 4 Note: COMP3111 OR COMP3111H Software Engineering
Honors Software Engineering 4 4 СОМР 3511 Operating Systems 3 Note: COMP3711 OR COMP3711H 3-4 3 4 COMP 3711 3 3 Design and Analysis of Algorithms COMP 3711H Honors Design and Analysis of Algorithms Note: Students are required to take COMP4900 for every regular term in which they are in residency at HKUST with major in COMP 0 0 0 0 0 0 0 0 0 Academic and Professional Development 4900 Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910 ndustrial Experience COMP COMP COMP COMP Final Year Project Final Year Thesis 3 4981 4981H COMF Co-op FYP Program Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431 3-4 4 robability and Random Processes in Engine Students should take MATH 2411 which will also be used to substitut Probability for Engineers Statistics for Engineers Applied Statistics Probability lonors Probability 2431 Engineering Seminar Series **ENGG** 2010 0 0 0 0 0 0 Technical Communication II for CSE & CPEG LANG 3 3 3 COMP Electives (5 courses from the specified elective list, of which at least 3 courses s COMP 15 3 6 3 3 15 taken from 1 area and at least 2 courses outside that area.) COMP COMP Elective (Any 1 course offered under COMP) 3 Required credits for Major Requirements Courses and Electives BBA in Economics **School Requirements** Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics 3 3 ECON 2103/2113/2123 is a major Note: ECON 2123 OR ECON 3123 prerequisite ECON 2123 3 3 3 FINA 2303 Financial Management 3 3 3 ISOM 2010 Introduction to Information Systems 3 0 Substituted by COMP 1021/1022F Coding for Business 1 0 ISOM ISOM 2700 Operations Management 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 SBMT 0 Waived for DDP students LABU 2040 Business Case Analyses 3 LABU 2060 Effective Communication in Business 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB 3-4 DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the equirements of both BEng and BBA MATH MATH MATH MATH MATH 1012 (3) 020 023 ccelerated Calculus degrees Honors Calculus I Required credits for School Requirements 43-44 Major Requirements Major Required Courses and Electives Managerial Microeconomics ECON 3024 Managerial Macroeconomics 4 ECON 3334 troduction to Econo ECON 4670 0 conomics Research and Communication ECON ECON 4000-level Electives (Any 3 courses of the subject and level as specified) 11 4 11 Required credits for Major Required Courses and Electives 23 23 Additional Requirements Requirements for Dual Degree Program Required Courses TEMG Technology and Management Professional Activities 0 0 Case-based Problem Solving Required credits for Additional Requirements **University CORE** CORE C3 - C12 U CORE - Others 30 C1 & C2 U CORE - English Language 6 Sub-total for University CORE n load (excl. free cred 18 18 18 20 18 20 18 16

*Remarks on course(s):

() indicates the reuse of the same course to fulfill more than one requirement

denotes the course/requirement is either waived or substituted ## To graduate, students should complete all requirements as specified for DDP.

<< Declaration of |<< Declaration of

BEng major

>> 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.

An Example on Student's Pathway

CPECON 2020-21 Intake

<< Declaration of | << Declaration of BEng major BBA major chool of Engineering and School of Business Managemen rogram Oual Degree Program (BEng in Computer Engineering and BBA in Economics) Remarks Course Code Course Title / Courses List Offering Dept **BEng in Computer Engineering** Major Requirements **Engineering Fundamental Courses** Note: COMP1021 OR COMP1022P This course will also be used to substitution ISOM 2010 Introduction to Computer Science Introduction to Computing with Java OMP 3 COMP ENGG 1010 Academic Orientation 0 0 LANG 2030 Technical Communication I lote: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND MATH 1014 OR MATH 1024)] OR [MATH 1020] lonors Calculus I Ionors Calculus I Ionors Calculus II MATH 2011 Introduction to Multivariable Calculus 3 MATH Matrix Algebra and Applications Note: PHYS1112 OR PHYS1312 eneral Physics I with Calculus onors General Physics I PHYS 3 Note: PHYS1114 OR PHYS1314 PHYS 1114 3 3 3 1314 Ionors General Physics II Engineering Introduction course (If the students take an introduction course included in the major, this course can be counted towards their major requirement.) 0 SENG 3-4 (3) Required credits for Engineering Fundamental Courses 25-29 24 Major Required Courses and Electives PEG 3930 Academic and Professional Development II 0 0 Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++ Object-Oriented Programming and Data Structures Honors Object-Oriented Programming and Data Structures 5-8 4 4 Note: COMP2611 OR ELEC2350 4 4 2611 COMP ELEC Computer Organization ntroduction to Computer Organization and Design 2350 4 4 4 4 Note: COMP2711 OR COMP2711H OR ELEC 2600 COMP Discrete Mathematical Tools for Computer Scien Discrete Mathematical Tools for Computer Science
Honors Discrete Mathematical Tools for Computer Science
Probability and Random Processes in Engineering 2711H ELEC Operating Systems
Note: COMP4521 OR COMP4611 OR ELEC 4310 COMP 3511 3 3 3 Note: COMP4521 OR COMP4611 OR ELEC 4310

Mobile Application Develoepment

Design and Analysis of Computer Architectures

Embedded System Design

FPGA-based Design: From Theory to Practice

Mobile Embedded Systems: Hardware Platform, Software Development, and Applicatio

Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) OMP Note: (ICPEG4901 OR CPEG4902) AND CPEG197 AND CPEG1971] OR CPEG4910 Industrial Experience Computer Engineering Final Year Project in COMP Computer Engineering Final Year Thesis in COMP Computer Engineering Final Year Project in ELEC Computer Engineering Final Year Thesis in ELEC Computer Engineering Final Year Thesis in ELEC 3 PEG o-op Program 4 ELEC ntroduction to Electro-Robot Design 4 4 Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses A System View of Communications: from Signals to Packets Signals and Systems Electronic Circuits ELEC 3300 ntroduction to Embedded Systems 4 0 ENGG 2010 0 0 0 0 lote: LANG4030 OR LANG4031

echnical Communication II for CSE & CPEG

echnical Communication II for ECE & CPEG ANG ANG 4030 4031 3 Area Courses (At least 4 courses from the specified elective list , of which at least 2 cours should be taken from one single area and at least 2 courses outside that area. Courses 15 COMP/ELEC 3 15 ken as Major Required Courses may not be counted towards the elective requirement. Required credits for Major Requirements Courses and Electives 59-63 62 **BBA** in Economics School Requirements Principles of Accounting II 3 3 ote: ECON 2103 OR ECON 2113 CON 3 3 3 2103 ECON 2103/2113/2123 is a major 2113 ote: ECON 2123 OR ECON 3123 3 CON 2123 3 3 Macroeconomic Theory I CON 3 3 INA 2303 Financial Management 3 Introduction to Information System SOM 2010 3 0 Coding for Business SOM 2500 Business Statistics 3 3 SOM Introduction to Business Analytics 1 SOM Operations Management 3 Marketing Management 3 3 MGMT 2010 Business Ethics and the Individual 2 2 Organizational Behavior 3 3 MGMT Business Ethics and Social Responsibility 2130 2 2 1111 Business Student Induction 0 0 Waived for DDP students ABU 2040 Business Case Analyses 3 Effective Communication in Business LABU 2060 3 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Salculus and Linear Algebra Salculus IA Salculus IB 1003 1012 1013 1020 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 (3) onors Calculus I Required credits for School Requirements 43-44 Major Requirements Major Required Courses and Electives Managerial Microeconomics ECON 3334 Introduction to Econometrics ECON 4670 Conomics Research and Communication 0 0 CON ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives 23 23 **Additional Requirements** Requirements for Dual Degree Program Required Courses 1010 Technology and Management Professional Activities Case-based Problem Solving TEMG Required credits for Additional Requirements **University CORE** U CORE - Others U CORE - English Language Sub-total for University CORE 36 36

Notes:

() indicates the reuse of the same course to fulfill more than one requirement.

--- denotes the course/requirement is either waived or substituted ## To graduate, students should complete all requirements as specified for DDP.

<< Declaration of Section of Beng major BBA major

CVECON 2020-21 Intake

<< Declaration of BBA major

School of Engineering and School of Business Management Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in Economics) rogram: Remarks Offering Dept. Course code prefix) Course Title / Courses List BEng in Civil and Environmental Engineering **Major Requirements** Engineering Fundamental C Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ 1021 3 substitute ISOM 2010 lote: CHEM 1010 OR CHEM 1020 3 neral Chemistry IA neral Chemistry IB Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 1012 1013 1014 MATH 3 3 Calculus II Introduction to Multivariable Calculus 3 3 Required credits for Engineering Fundamental Courses 22-26 24 Major Required Courses and Electives 1010 Academic Professional Development I covering Civil and Environmental Engineering Academic Professional Development II Industrial and BIM Training 3 3 2160 Modeling Systems with Uncertainties 3 Infrastructure Systems Engineering and Management Environmental Assessment and Management 2410 3 Fluid Mechanics 3 3 nstruction Materials Academic Professional Development III 0^ ote: CIVL3210 OR CIVL3610 troduction to Construction Ma 3 Traffic and Transportation Engineering 3310 Structural Analysis 3 einforced Concrete Design Water and Wastewater Engineering Hydrosystems Engineering Fundamentals of Geotechnics Geotechnical Analysis and Design Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project
Civil and Environmental Engineering Final Year Thesis 3 3 6 Civil Engineering Capstone Design Project Note: CIVL4450 OR CIVL 5450 OR CIVL5460
Carbon Footprint Analysis and Reduction
Hazardous Waste Treatment and Site Remediation 3 Landfill Engineering and Design ENGG 2010 Engineering Seminar Series 0 0 0 0 0 0 LANG 4033 Technical Communication II for Civil and Environmental Engineering Restricted electives: at least 1 course AND CIVL/SENG 3 (CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted Electives" Tom the list ICR SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL) Required credits for Major Requirements Courses and Electives 66 66 **BBA** in Economics School Requirements Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 3 2103 Principles of Microeconomics 3 3 CON 2113 ECON 2103/2113/2123 is a majo Note: ECON 2123 OR ECON 3123 2123 3123 3 3 FINA 2303 Financial Management 3 3 3 SOM 2010 Introduction to Information Systems 3 -- --0 ---1021/1022P/2011 ISOM 2020 Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management 3 3 MGMT 2110 Organizational Behavior 3 SBMT 1111 Business Student Induction 0 Substituted by ENGG 1010 Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA (3) Calculus IB equirements of both BEng and BB/ MATH 1023 Honors Calculus I Required credits for School Requirements 43-44 **Major Requirements** Managerial Microeconomics 3024 Managerial Macroeconomics CON ECON 3334 Introduction to Econometrics Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities Required credits for Additional Requirements **University CORE** C3 - C12 U CORE - Others C1 & C2 U CORE - English Language Sub-total for University CORE 18 18 19 19 20 19 19 << Declaration of
BEng major</pre>
BBA 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.

DAECON (Via DDP PBA) 2020-21 Intake

36

An Example on Student's Pathway School: School of Engineering and School of Business Management Student's Pathway rogram: Oual Degree Program (BEng in Decision Analytics and BBA in Economics) Remarks Course Title / Courses List Code ode prefix) **BEng in Decision Analytics** Major Requirements Engineering Fundamental Courses Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ ENGG 1010 cademic Orientation 0 0 0 Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 CHEM 1010 3 CHEM 1020 1112 General Chemistry IB 3 3 General Physics I with Calculus PHYS PHYS 1312 lonors General Physics I ANG 2030 Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH MATH MATH MATH MATH MATH Calculus IA
Calculus IB
Calculus II
Accelerated Calculus
Honors Calculus I
Honors Calculus II 1012 1013 1014 1020 023 024 иатн 2011 ntroduction to Multivariable Calculus 3 3 3 Matrix Algebra and Applications Engineering Introduction course (If the students take an introduction course included in their major, this MATH 3 SENG 3-4 (3) 0 course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 22-27 21 Major Required Courses and Electives Academic and Professional Development I Academic and Professional Development II IEDA 1020 0 0 IEDA IEDA 0 1990 1991 ndustrial Experience 2520 robaility for Engineers 3 2540 atistics for Engineers substitute ISOM2500 Prescriptive Analytics IEDA 3010 3 3 3 IEDA 3230 ingineering Economics and Accounting 3 3250 Stochastic Models 3300 dustrial Data Systems IEDA 3 IEDA 3560 redictive Analytics 3 3 3 Note: IEDA4901 OR IEDA4920 Final Year Thesis Decision Analytics Final Year Project ENGG 2010 0 0 0 0 0 0 Note: ECON2103 OR ECON2113 ECON 2103/2113/2123 is a 2103 3 3 ECON rinciples of Microeconomics ECON 2113 /licroeconomics Fechnical Communication II for Industrial Engineering and Decision Analytics Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from 1032 3 3 IEDA 15 15 Required credits for Major Required Courses and Electives 48 48 **BBA** in Economics School Requirements ACCT rinciples of Accounting I ACCT 2200 Principles of Accounting II 3 3 (3) 0 ECON 2103/2113/2123 is a ECON 2113 licroeconomics lote: ECON 2123 OR ECON 3123 3 2123 3 ECON 3 ECON 3123 Macroeconomic Theory I 2303 inancial Management Substituted by COMP ISOM 2010 ntroduction to Information Systems 3 0 1021/1022P/2011 ISOM 2020 Coding for Business Substituted by IEDA2540 ISOM 2500 Business Statistics 3 0 ISOM 2600 ntroduction to Business Analytics ISOM 2700 Operations Management 3 3 MARK 2120 Marketing Management 3 3 3 MGMT 2010 Business Ethics and the Individual MGMT 2110 Organizational Behavior 3 3 MGMT 2130 susiness Ethics and Social Responsibility 1111 Waived for DDP students 0 0 ABU 2040 Business Case Analyses 3 3 3 ABU 2060 Effective Communication in Business 3 Effective Communication in Business
Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 102:
Calculus and Linear Algebra
Calculus IA
Calculus IB
Accelerated Calculus
Honors Calculus I 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 (3) Required credits for School Requirements 43-44 33 **Major Requirements** Major Required Courses and Electives 3014 anagerial Microe ECON 3024 Managerial Macroeconomics ECON 3334 Introduction to Econometrics 4 4 ECON 4670 conomics Research and Communication 0 ECON 4000-level Electives (Any 3 courses of the subject and level as specified) ECON 11 4 11 Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses TEMG 1010 echnology and Management Professional Activities TEMG 3950 Case-based Problem Solving 3 3 Required credits for Additional Requirements 3 University CORE C3 - C12 J CORE - Others C1 & C2 U CORE - English Language

() indicates the reuse of the same course to fulfill more than one requirement.

To graduate, students should complete all requirements specified for DDP

Notes

18

18

major

<< Declaration of BEng

18

Term load (excl. free credits)

<< Declaration of BBA

16

18

16

13

17

major

36

Sub-total for University CORE

The Hong Kong University of Science and Technology EEECON 2020-21 Intake **Interdisciplinary Programs Office** (Via DDP PBA) An Example on Student's Pathway << Declaration of BEng major BBA major School of Engineering and School of Business Management Student's Pathway School: Dual Degree Program (BEng in Electronic Engineering and BBA in Economics) Remarks Offering Dept. Course Code Course Title / Courses List course code prefix) BEng in Electronic Engineering **Major Requirements Engineering Fundamental Courses** Note: ELEC2600 OR ELEC2600H) OR MATH2011 OR MATH2111 OR MATH2350 9-10 OR MATH 2351 (3 courses out of 6) Probability and Random Processes in Engineering
Honors Probability and Random Processes in Engineering 3 MATH ntroduction to Multivariable Calculus Matrix Algebra and Applications MATH 2111 Applied Linear Algebra and Differential Equations Introduction to Differential Equations матн Note: COMP1021 OR COMP1022P Introduction to Computer Science This course will also be used to substitute ISOM 2010 COMP 1022F Introduction to Computing with Java COMP 2011 4 Programming with C++ 1010 **ENGG** Academic Orientation 0 0 0 0 2030 Technical Communication I LANG 3 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH 1012 Calculus IA 1013 1014 матн Calculus IB 3 3 Calculus II MATH 1020 ccelerated Calculus MATH 1023 Honors Calculus I MATH 1024 onors Calculus II Note: PHYS1112 OR PHYS1312 PHYS 1112 General Physics I with Calculus 3 3 3 lonors General Physics I Note: PHYS1114 OR PHYS1314 eneral Physics II 3 PHYS Honors General Physics Engineering Introduction course (If the students take an introduction course included in SENG (3) neir major, this course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 32-37 31 Major Required Courses and Electives troduction to Electro-Robot Design **ELEC** 1100 ELEC 4 A System View of Communications: from Signals to Packets Note: ELEC2100 OR ELEC2100H **ELEC** 2100 Signals and Systems 2100H lonors Signals and System ELEC 2350 Introduction to Computer Organization and Design 4 2400 Electronic Circuits 4 ELEC 2910 Academic and Professional Development I 0 0 Academic and Professional Development II ELEC 3910 0 0 0 Note: (ELEC4900 AND ELEC2991) OR (ELEC4901 AND ELEC2991) OR ELEC4910 (Students taking the Research Option must take ELEC 4901) 6 **ELEC** 4900 Final Year Design Project 3 3 6 ELEC 4901 Final Year Thesis ndustrial Experience (Electronic Engineering) Co-op Program ENGG 2010 Engineering Seminar Series 0 0 0 LANG Technical Communication II for ECE & CPEG 3 LEC 3000-level or 4000-level Electives (Any 2 courses ELEC 4000-levek courses ELEC 3 6 3 21 ELEC4940 cannot be used to count towards this elective requirement Required credits for Major Requirements Courses and Electives 50 50 **BBA** in Economics School Requirements Principles of Accounting I 3 3 Principles of Accounting II Note: ECON2103 OR ECON2113 **ECON** rinciples of Microec 3 CON 2113 ECON 2103/2113/2123 is a majo Note: ECON2123 OR ECON3123 **ECON** 3123 Macroeconomic Theory I FINA 2303 Financial Management 3 3 3 Introduction to Information Systems ISOM 2010 3 0 Substituted by COMP 1021/1022P ISOM 2020 Coding for Business ISOM 2500 Business Statistics 3 2600 ISOM Introduction to Business Analytics Operations Management ISOM 2700 3 3 MARK 2120 Marketing Management 3 MGMT 2010 Business Ethics and the Individual 2 Organizational Behavior MGMT 2110 3 MGMT 2130 Business Ethics and Social Responsibility 2 SBMT 1111 Business Student Induction 0 0 Waived for DDP students LABU 2040 Business Case Analyses 3 Effective Communication in Busines LABU 2060 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DDP students should take MATH MATH (3) 1003 Calculus and Linear Algebra 1012 or MATH 1013 or MATH 1020 MATH 1012 Calculus IA or MATH 1023 to satisfy the requirements of both BEng and BBA degrees 0 1013 1020 Calculus IB MATH 1023 Honors Calculus I Required credits for School Requirements 43-44 39 **Major Requirements** Major Required Courses and Electives Managerial Microeconomics ECON 3024 Managerial Macroeconomics 4 4 ECON 3334 Introduction to Econometrics Economics Research and Communication 0 **ECON** 4670 0 ECON ECON 4000-level Electives (Any 3 courses of the subject and level as specified) 11 11 Required credits for Major Required Courses and Electives 23 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities

Notes

TEMG TEMG

CORE

CORE

() indicates the reuse of the same course to fulfill more than one requirement

- denotes the course/requirement is either waived or substituted ## To graduate, students should complete all requirements as specified for DDP.

3950

C3 - C12

C1 & C2

University CORE

BEng major

18

20

18

BBA major

19

Term load (excl. free credits)

182##

20 20

18

18

16

3

30

6

36

*Remarks on course(s):

U CORE - Others

U CORE - English Language

30

Required credits for Additional Requirements

Sub-total for University CORE

School of Engineering and School of Business Management

IEECON 2020-21 Intake

An Example on Student's Pathway << Declaration of

BEng major

BBA major

Student's Pathway

Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in Economics) Remarks Course Code Course Title / Courses List Offering Dept course code prefix) BEng in Industrial Engineering and Engineering Management **Major Requirements** Engineering Fundamental Courses lote: COMP1021 OR COMP1022P OR COMP2011 3-4 3 3 Introduction to Computer Science Introduction to Computing with Java This course will also be used to substitute ISOM 2010 OMP Programming with C++ ENGG 1010 Academic Orientation 0 0 0 Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA HEM 1020 General Chemistry IB 3 3 General Physics I with Calculus Honors General Physics I PHYS 1112 ANG 2030 Technical Communication I 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA MATH 1013 Calculus IB 3 3 6 MATH 1014 Calculus II HTAN 1024 Honors Calculus II MATH 2011 Introduction to Multivariable Calculus 3 3 3 MATH 2111 Matrix Algebra and Applications 3 3 Engineering Introduction course (If the students take an introduction course included in SENG 3-4 (3) 0 heir major, this course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 22-27 21 Major Required Courses and Electives 1010 Academic and Professional Development I EDA 1020 Academic and Professional Development II 0 0 0 Note: IEDA1990 OR IEDA1991 0 EDA 1990 Industrial Training 0* 0^ 1991 ndustrial Experienc Probability for Engineers EDA 2520 3 3 This course will also be used to 2540 3 EDA Statistics for Engineers 3 3 substitute ISOM2500 EDA 3010 Presciptive Analytics 3 Engineering Economics and Accounting IEDA 3230 3 3 3 EDA 3250 Stochastic Models 3 3 EDA 3300 3 3 Industrial Data Systems This course will also be used to EDA 4100 Integrated Production Systems 3 3 3 substitute ISOM 2700 EDA 4130 System Simulation 3 3 3 Note: IEDA4901 OR IEDA4990 EDA Final Year Thesis 3 6 ndustrial Engineering and Engineering Management Final Year Projec ENGG 2010 Engineering Seminar Series 0 0 0 0 0 0 0 0 0 0 Note: ECON 2103 OR ECON 2113 ECON 2103/2113/2123 is a major CON 2103 3 . Microeconomics ANG 4032 Technical Communication II for Industrial Engineering and Decision Analytics 3 3 3 Industrial Engineering Electives (Courses from the specified 21 elective list, of which at least 15 credits should be taken from 1 EDA 21 3 21 of the 2 areas and at least 6 credits outside that area.) Required credits for Major Requirements Courses and Electives 57 57 **BBA** in Economics **School Requirements** Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 CON 2103 Principles of Microeconomics 3 (3) 0 ECON 2103/2113/2123 is a major Note: ECON 2123 OR ECON 3123 3 3 CON facroeconomic Theory 3123 FINA Financial Management Substituted by COMP 1021/1022P SOM 0 Introduction to Information Systems SOM Coding for Business SOM **Business Statistics** 0 Substituted by IEDA2540 SOM Introduction to Business Analytics SOM Substituted by IEDA 4100 Operations Management 0 MARK Marketing Management 3 Business Ethics and the Individual MGM Organizational Behavior Business Ethics and Social Responsibility Waived for DDP students SBMT 1111 Business Student Induction 0 LABU Business Case Analyses LABU Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra ИАТН 1003 1012 or MATH 1013 or MATH 102 иать Calculus IA or MATH 1023 to satisfy the requirements of both BEng and BBA degrees (3) 0 alculus IB /ATH lonors Calculus I Required credits for School Requirements 43-44 30 Major Requirements Major Required Courses and Electives Managerial Microec CON 3024 Managerial Macroeconomics 4 4 4 ECON 3334 Introduction to Econometrics 4 4 4 ECON 4670 **ECON** Required credits for Major Required Courses and Electives **Additional Requirements** Requirements for Dual Degree Program Required Courses TEMG Technology and Management Professional Activities TEMG Case-based Problem Solving Required credits for Additional Requirements **University CORE** C3 - C12 U CORE - Others 30 30 U CORE - English Language 6 6 Sub-total for University CORE 36 36 << Declaration of << Declaration of 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):

School:

An Example on Student's Pathway << Declaration of Seng major Self BBA major MEECON 2020-21 Intake

School: Program:		School of Engineering and School of Business Management		l		BEng ma	,,	BBA maj		Studen	t's Pathway	/			
		Dual Degree Program (BEng in Mechanical Engineering and BBA in Econol	mics)							Otado.		<u>'</u>			
	1	Dual Degree 1 Togram (DEIIg in mechanical Engineering and DDA in Econo	1												
Course				Ύe	Yea	Ye	Yea		Yea	Ύe	Yea	Ϋ́e	Yea	S	Remarks
Offering Dept.	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	ear 5 Spring	Sub-total	110.11.0
course code prefix)			ts	Fall	pring	Fall	pring	Ea	pring	Fall	pring	Fall	pring	otal	
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Major Require	chanical En	gineering													
	damental Courses														
ingineering runc	Tamental Courses	Note: COMP1021 OR COMP1022P OR COMP2011	3-4	1			1	-			1	l	1		1
COMP	1021	Introduction to Computer Science	3	3		<u> </u>		ļ						3	This course will also be used
COMP COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4			ļ		ļ						ŭ	substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0	ļ								0	
ANG	2030	Technical Communication I	3			Ï	3	ĺ						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			i		İ							
MATH	1012	Calculus IA	4			i		i							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	i		; 						6	
ИАТН ИАТН	1020 1023	Accelerated Calculus Honors Calculus I	4 3			į		:							
MATH MATH	1024 2011	Honors Calculus II Introduction to Multivariable Calculus	3			<u>!</u>		3						3	
ЛАТП	2011	Note: MATH2111 OR MATH2350 OR MATH2351	3			!		3						3	
MATH MATH	2111 2350	Matrix Algebra and Applications Applied Linear Algebra and Differential Equations	3			<u>!</u>		ļ		3				3	
MATH	2351	Introduction to Differential Equations	3			<u> </u>		<u> </u>							
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3		3	į		İ						3	
PHYS	1312	Honors General Physics I	3		Ů	İ		<u>j</u>						Ů	
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)	İ		<u>.</u>						0	
Major Demilier d.C	Courses and Elect	Required credits for Engineering Fundamental Courses	22-26				<u> </u>	<u>. </u>					<u> </u>	21	
<u>Major Required C</u> иесн	Courses and Elect	Industrial Training	0		1	0*	0^	<u> </u>						0	
MECH	2020	Statics and Dynamics	3			3	Ĺ							3	
MECH	2040	Solid Mechanics I	3			! !		! -	3					3	
MECH MECH	2210 2310	Fluid Mechanics Thermodynamics	3	 	<u> </u>	3		<u>!</u>	3		-			3	
MECH MECH	2310	Thermodynamics Engineering Materials I	3			3	3	 						3	
MECH	2520	Design and Manufacturing I	3				3							3	
MECH	2907	Mechatronic Design and Prototyping	3			<u> </u>		<u> </u>	3					3	
MECH	3030	Mechanisms of Machinery Note: MECH3300 OR MECH3420 OR MECH3520	3			<u>:</u>		<u> </u>			3			3	
MECH	3300	Energy Conversion	3			i				3				3	
MECH MECH	3420 3520	Engineering Materials II Design and Manufacturing II	3					! !		_					
MECH	3310	Heat Transfer	3			!					3			3	
MECH	3610	Control Principles	3			<u> </u>		3			-			3	
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MECH	4900	Final Year Design Project	6			i		i			Ů	3	3	6	
LEC	2420	Basic Electronics	3			3		İ						3	
ENGG	2010	Engineering Seminar Series Technical Communication II for Mechanical and Areospace Engineering	0			0	0	0	0		3			3	
ENGG	4034	Technical Communication II for Mechanical and Areospace Engineering	3			0	0	0	0		3			0 3 51	
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ENGG LANG BBA in Eco School Requi ACCT ACCT ECON ECON ECON ECON ECON ESOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT SBMT LABU LABU	### Repairs ##	Technical Communication II for Mechanical and Areospace Engineering quired credits for Major Requirements Courses and Electives Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Note: ECON 2123 OR ECON 3123 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	3 3 51 3 3 3 3 3 3 4 4 51 51 51 51 51 51 51 51 51 51 51 51 51			3	3	1 1 3				2	2	3 51 3 3 3 3 0 1 3 1 3 3 2 2 0	Substituted by COMP 1021/1022P/2011 Waived for DDP students
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- () indicates the reuse of the same course to fulfill more than one requirement.
- ^ Courses offered in summer term
- --- denotes the course/requirement is either waived or substituted
- $\ensuremath{\mbox{\#\#}}$ To graduate, students should complete all requirements as specified for DDP.

An Example on Student's Pathway

BEMARK 2020-21 Intake (Via DDP PBA)

School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Bioengineering and BBA in Marketing) rogram: Remarks Offering ourse Code Course Title / Courses List BEng in Bioengineering Major Requirements Engineering Fundamental Courses Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science This course will also be used to COMP COMP COMP 3 ntroduction to Computing with Java substitute ISOM 2010 1029P Python Programming Bridging Course Programming with C++ 2011 3 CHEM 1020 General Chemistry IB HEM 1050 Laboratory for General Chemistry I ANG 2030 Technical Communication I 3 General Biology I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB Calculus II 1012 1013 3 3 1014 1020 1023 ccelerated Calculus onors Calculus I onors Calculus I Note: PHYS 1112 OR PHYS 1312 PHYS 1112 3 3 PHYS 1312 Engineering Introduction course (if the students take an introduction course included in their major, this course can be counted towards their major requirement.) SENG 3-4 (3) 0 23-29 Required credits for Engineering Fundamental Courses 22 Major Required Courses and Electives Note: BIEN 1010 OR CENG 1000 3 3 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering CENG 2310 Modeling for Chemical and Biological Engineering 3 BIEN 2410 Cellular and Systems Physiology for Engineers 3 3 BIEN 2610 Chemical Biology for Engineers 3 3 3 BIEN 2990 Academic and Professional Development I 1 1 BIEN 3240 Transport Phenomena in Biological Systems 3 3 BIEN 3320 Data Science for Biology and Medicine 3 3 BIEN Introduction to Bioinstrumentation and Bioimaging 3910 ioengineering Laboratory lote: BIEN 4920 OR BIEN 4930 OR BIEN 4940 one. DIEN 4920 OR BIEN 4930 bengineering Capstone Design bengineering Thesis Research bengineering Industrial Project BIEN 4990 Academic and Professional Development II 1 CENG 2210 Chemical and Biological Engineering Thermodynamics 3 3 CENG 3230 Chemical and Biological Reaction Engineering 3 3 NGG 2010 ote: LIFS 3150 OR MATH 2411 3150 2411 3 3 applied Statistics Technical Communication II for Chemical and Biological Engineering ANG 4035 3 Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should 15 3 15 SCI/SENG 6 6 be at 4000-level) Required credits for Major Required Courses and Electives 60-61 BBA in Marketing School Requirements Principles of Accounting I Principles of Accounting II ote: ECON 2103 OR ECON 2113 3 3 Note: ECON 2123 OR ECON 3123 2123 3 3 ECON 3123 Macroeconomic Theory I INA 2303 Financial Management 3 Substituted by COMP SOM 2010 Introduction to Information Systems ISOM 2020 Coding for Business 1 0 1021/1022P/1029P/2011 2500 3 LIFS 3150/MATH 2411 SOM 2600 Introduction to Business Analytics 1 0 Substituted by BIEN3320 SOM 2700 Operations Management MARK 2120 is a major pre MARK 2120 Marketing Management 2010 Business Ethics and the Individual 2 иGMT 2110 Organizational Behavior 3 Business Ethics and Social Responsibility MGMT 2130 2 2 2 Substituted by ENGG 1010 SBMT 1111 Business Student Induction 0 0 LABU 2040 Business Case Analyses 3 3 3 LABU 2060 Effective Communication in Business 3 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MAT 1003 Calculus and Linear Algebra 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees 1012 1013 Calculus IA (3) 0 Calculus IB onors Calculus I Required credits for School Requirements Major Requirements Major Required Courses and Electives Marketing Research MARK 3220 4 MARK 3420 Consumer Behavior 4 4 MARK 4210 Strategic Marketing 4 12 Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses 1010 Technology and Management Professional Activities 0 TEMG Case-based Problem Solving 3950 Required credits for Additional Requirements 3 **University CORE** C3 - C12 U CORE - Others U CORE - English Language Sub-total for University CORE 36 36 19 18 18 19 20 19 17 179##

() indicates the reuse of the same course to fulfill more than one requirement.

--- denotes the course/requirement is either waived or substitued

To graduate, students should complete all requirements 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.

BTMARK 2020-21 Intake (Via DDP PBA)

<< Declaration of BEng major BBA major BEng major School of Science and School of Business Management School: Student's Pathway rogram Oual Degree Program (BSc in Biotechnology and BBA in Marketing) Remarks Course Code Course Title / Courses List BSc in Biotechnology School Requirements SCIE Science School Induction

Note: COMP1021 OR COMP1022P OR COMP2011

Introduction to Computer Science
Introduction to Computing with Java

Programming with C++

English for Science I

ocience Tournazion ocurses to courses non rure specimen elective ourse, but no more than

lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laborato

course.] This course will also be used to substitute ISOM 2010 3 022P COMP 2011 ourse.] Chemistry in Everyday Life General Chemistry IA General Chemistry IB General Chemistry II 1050 1055 Laboratory for General Chemistry I _aboratory for General Chemistry II 1030 Environmental Science LIFS LIFS LIFS 1901[@] General Biology I® General Biology II[®]
Laboratory for General Biology I
Laboratory for General Biology II 1902[@] 1903 1904 LIFS1901 & LIFS1902 are Major LIFS LIFS LIFS Pre-requisite 1930 2210 Nature of Life Sciences 3 3 Biochemistry I HTAN HTAN 1012 1013 1014 1020 1023 1024 2023 2121 Calculus IA Calculus IB
Calculus IB
Calculus II
Accelerated Calculus
Honors Calculus I
Honors Calculus I
Multivariable Calculus
Linear Algebra MATH 2131 Honors in Linear and Abstract Algebra I Physics and the Modern Society General Physics I with Calculus Laboratory for General Physics I General Physics II Laboratory for General Physics II 1001 1111 1112 1113 1114 1115 Required credits for School / Major Pre-requisite Requirements 25-29 Major Requirements Major Required Courses and Electives Laboratory for General Biology Laboratory for General Biology II Cell Biology 3 LIFS Introduction to Biotechnology 3 3 Plant Biology Biochemistry I 3 (3) 0 Microbiology iotechnological Application of Recombinant DNA Technique General Genetics 4150 Plant Biotechnology 3 3 Concepts and Issues in Contemporary Biotechnology
Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) 3-7 Note: LIFS4983 OK (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) (Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.)

Biotechnology Capstone Project
Biotechnology Project Research I
Biotechnology Project Research II
RE Research Project II

RE Research Project II

RE PRESEARCH PROJECT III

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RE PRESEARCH PROJE [3] 3 0 General Chemistry II CHEM 1030 (3) aboratory for General Chemistry I CHEM aboratory for General Chemistry II Note: CHEM 2110 OR CHEM 2311 Organic Chemistry I Analytical Chemistry Note: CHEM2155 OR CHEM2355 CHEM 3 1 2155 2355 Fundamental Organic Chemistry Laboratory Fundamental Analytical Chemistry Laboratory CHEM CENG technology and Its Business Opportunities Science Communication in English (Life Science Biotechnology Electives (Courses from the specified elective list; Students following IRE Track are required to take a minimum of 15 credits; while others a minimum of 18 credits LIFS/BIPH/BTEC/BIEN/ 15 15-18 3 CENG ourses taken as Major/Track Required Courses may not be counted towards the elective Required credits for Major Required Courses and Electives 62-70 BBA in Marketing School Requirements Principles of Accounting I Note: ECON 2103 OR ECON 2113 3 3 ECON 2103 Principles of Microeconomics Note: ECON 2123 OR ECON 3123 3 2123 3 Macroeconomic Theory I ECON 3123 Financial Management ISOM 2010 ntroduction to Information Systems 0 Coding for Business ISOM Business Statistics 3 ntroduction to Business Analytics ISOM ISOM 120 Marketing Management MARK 2120 is a major pre-requisit Business Ethics and the Individual MGMT 2110 Organizational Behavior Business Ethics and Social Responsi Waived for DDP student siness Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 LABU 3 MATH MATH MATH (3) equirements of both BSc and BBA degrees Honors Calculus I Required credits for School Requirements 43-44 Major Requirements Major Required Courses and Electives Marketing Research MARK 4210 Strategic Marketing 4 ИARK MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified 12 12 Required credits for Major Required Courses and Electives 24 24 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities TEMG 3950 Case-based Problem Solvin Required credits for Additional Requirements University CORE Sub-total for University CORE 18 19 19 19 20 20 19 19 16

@ Course that students need to complete before enrolling into respective major/programs

() indicates the reuse of the same course to fulfill more than one requirement. [] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office

-- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

<< Declaration of

BBA major

<< Declaration of

>> 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.

<< Declaration of dec

CEMARK 2020-21 Intake

						BEng ma		BBA maj							
School:		School of Engineering and School of Business Management								Student	's Pathway				
rogram:		Dual Degree Program (BEng in Chemical Engineering and BBA in Marke	eting)												
				≺	Yea	≾	Yea	≼	Yea	×	Yea	×	Yes	v	Remarks
ourse fering Dept.	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	/ear 2 Spring	Year 3 Fall	rear 3 Spring	Year 4 Fall	Year 4 Spring	Year 5	∕ear 5 Spring	Sub-total	Kemurks
ourse code prefix)			its	Fall	spring	Fall	pring	Fall	pring	Fall	pring	5 Fall	pring	otal	
Eng in Ch	nemical Eng	uineering													
lajor Require		iniconnig													
	damental Course		2.4	11	ı		1		1	1	1	1	1	1	T
OMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4	3		į		į						3	This course will also be us
OMP OMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4			! !		<u> </u>							substitute ISOM 2010
IGG	1010	Academic Orientation Note: CHEM1010 OR CHEM1020	0	0	0	<u>!</u>		<u> </u>						0	
HEM HEM	1010 1020	General Chemistry IA General Chemistry IB	3	3		: 		i						3	
NG	2030	Technical Communication I	3			<u> </u>		3						3	
	1010	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			ļ		ļ.							
ATH ATH	1012 1013 1014	Calculus IA Calculus IB Calculus II	3	3	3	! :		! :						6	
ATH ATH ATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			!		:							
ATH	1024	Honors Calculus II	3			<u> </u>		<u>i </u>							
ATH	2011	Introduction to Multivariable Calculus Note: PHYS 1112 OR PHYS 1312	3			3		! 						3	
HYS HYS	1112 1312	General Physics I with Calculus Honors General Physics I	3	3		į		į						3	
		Required credits for Engineering Fundamental Courses	19-23			!								21	
iajor Required C	Courses and Elec	Note: CENG1000 OR CENG1500			l	i		i							
ENG ENG	1000 1500	Introduction to Chemical and Biological Engineering A First Course on Materials Science and Applications	3	3		i		i						3	
ENG	1600	Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities	3			İ		į							
ENG ENG EN	1700 1010	Introduction to Environmental Engineering Introduction to Biomedical Engineering	3		3	İ		Į						3	
ENG	1010	Academic and Professional Development I	0			0		!						0	
ENG ENG	1980 2110	Industrial Training Process and Product Design Principles	3			3	0	0	0	0				3	
ENG	2210	Chemical and Biological Engineering Thermodynamics	3			: 	3	i						3	
ENG ENG	2220 2310	Process Fluid Mechanics Modeling for Chemical and Biological Engineering	3	1		3	3	į						3	
ENG	3110	Process Dynamics and Control	3			<u> </u>		ĺ	3					3	
ENG ENG	3150 3210	Integrated Chemical Process & Product Design Separation Processes	5			<u> </u>	L	3	5					5 3	
ENG	3220	Heat and Mass Transfer	3			<u> </u>		3						3	
ENG ENG	3230 3950	Chemical and Biological Reaction Engineering Chemical and Environment Engineering Laboratory	3			<u>:</u>		3			4			3	
ENG	4020	Academic and Professional Development II	0			ĺ		Ì				0		0	
ENG	4920	Note: CENG4920 OR CENG4930 OR CENG4940 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>ļ</u>							
NGG HEM	2010 1050	Engineering Seminar Series Laboratory for General Chemistry I	0		1	0	0	0	0					0	
HEM	2111	Fundamentals of Organic Chemistry	3			<u>:</u>	3	<u>:</u>						3	
HEM ANG	2155 4035	Fundamental Organic Chemistry Laboratory Technical Communication II for Chemical and Biological Engineering	3			i	1	i				3		3	
IEN	2410	Note: BIEN2410 OR BIEN2610 OR LIFS1901	3			<u> </u>		Ì							
IEN IFS	2610 1901	Cellular and Systems Physiology for Engineers Chemical Biology for Engineers General Biology I	3			!	3	!						3	
ENG/SSCI/ENVR	1901	CENG Elective (12 credits from specified elective list)	12			<u>. </u>		3	3	3	3			12	
DDA in Mon		quired credits for Major Requirements Courses and Electives	68			!		!						68	
BBA in Mar School Requi															
CCT	2010	Principles of Accounting I	3			3		ļ						3	
ССТ	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3			!		!		3				3	
CON	2103 2113	Principles of Microeconomics Microeconomics	3		3	!		!						3	
		Note: ECON 2123 OR ECON 3123				i		i							
CON CON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			i		į		3				3	
INA	2303	Financial Management	3			<u> </u>	3	<u> </u>						3	Substituted by COMP
OM OM	2010	Introduction to Information Systems Coding for Business	3			1		<u> </u>						0	1021/1022P/COMP201
OM	2500	Business Statistics	3			3								3	
OM	2600 2700	Introduction to Business Analytics Operations Management	3			1		-				3		3	
ARK	2120	Marketing Management	3		3	<u>i</u>	L	<u> </u>	L				L	3	MARK 2120 is a major pr requisite
GMT	2010	Business Ethics and the Individual	2			<u> </u>		į.	2					2	
GMT GMT	2110 2130	Organizational Behavior Business Ethics and Social Responsibility	2			3		<u>!</u>					2	3	
BMT ABU	1111 2040	Business Student Induction Business Case Analyses	0			 		† 1		3				0	Waived for DDP student
ABU ABU	2040	Effective Communication in Business	3					<u> </u>		3			3	3	
	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4 3			i I		i							DDP students should take M
ATH	1012	Calculus IA	4	(3)		į		į						0	1012 or MATH 1013 or MA 1020 or MATH 1023 to satis requirements of both BEng
ATH ATH ATH	1013	Calculus IB				I		<u>i</u>							BBA degrees
ATH	1013 1020 1023	Calculus IB Accelerated Calculus Honors Calculus I	4			:								00	
ATH ATH ATH ATH	1020 1023	Accelerated Calculus	4 3			1								39	•
ATH ATH ATH ATH Iajor Require	1020 1023 ements	Accelerated Calculus Honors Calculus I Required credits for School Requirements	4 3			<u>.</u>		<u> </u>						39	
ATH ATH ATH ATH Iajor Required Iajor Required C	ements Courses and Elec	Accelerated Calculus Honors Calculus I Required credits for School Requirements	4 3					4						4	
ATH ATH ATH ATH ATH ATH ATH ATH ATH ATH	1020 1023 ements Courses and Electors 3220 3420	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives Marketing Research Consumer Behavior	4 3 45-46 4 4			: : : :		4	4					4 4	
ATH ATH ATH ATH ATH ATH ATH lajor Require ajor Required C ARK ARK ARK	ements Courses and Elec	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as	4 3 45-46 4 4 4					4	4	A	A	A	4	4 4 4	
ATH ATH ATH ATH ATH ATH ATH AIGH AIGH AIGH AIGH AIGH AIGH AIGH AI	1020 1023 ements Courses and Electors 3220 3420	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives Marketing Research Consumer Behavior Strategic Marketing	4 3 45-46 4 4 4 12					4	4	4	4	4	4	4 4	
ATH ATH ATH ATH ATH ATH ATH lajor Require lajor Required C ARK ARK ARK ARK	1020 1023 ements Courses and Electors 3220 3420	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives 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 Electives	4 3 45-46 4 4 4 12					4	4	4	4	4	4	4 4 4 12	
ATH ATH ATH ATH lajor Require lajor Required C ARK ARK ARK ARK ARK ARK ARK ARK ARK ARK	ements Courses and Elect 3220 3420 4210 Requirements s for Dual De	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives 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 Electives	4 3 45-46 4 4 4 12					4	4	4	4	4	4	4 4 4 12	
ATH ATH ATH ATH ATH Iajor Require Iajor Required C ARK ARK ARK ARK ARK ACK ACK ACK ACK ACK ACK ACK ACK ACK AC	ements Courses and Elect 3220 3420 4210 Requirements For Dual Design	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives 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 Electives nts gree Program	4 3 45-46											4 4 4 4 12 24	
ATH ATH ATH ATH ATH ATH ATH AITH AIGNORY AIGN	ements Courses and Elect 3220 3420 4210 Requirements s for Dual De	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives 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 Electives nts gree Program Technology and Management Professional Activities Case-based Problem Solving	4 3 45-46 4 4 4 12 24	0	0 3	0	0	0	4	4	4	4	4	4 4 4 12	
ATH ATH ATH ATH ATH LATH LATH LATH LATH	1020 1023 1020 1023 1020 1023	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives 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 Electives nts gree Program Technology and Management Professional Activities	4 3 45-46 4 4 4 12 24	0		0	0							4 4 4 12 24	
In the state of th	1020 1023	Accelerated Calculus Honors Calculus I Required credits for School Requirements tives 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 Electives nts gree Program Technology and Management Professional Activities Case-based Problem Solving	4 3 45-46 4 4 4 12 24	0		0	0							4 4 4 12 24	
ATH ATH ATH ATH ATH ATH ATH AITH AIGNORY AIGN	1020 1023 1020 1023 1020 1023	Accelerated Calculus Honors Calculus I Required credits for School Requirements Required credits for School Requirements 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 Electives Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	4 3 45-46 4 4 4 12 24 0 0 3 3 3 3 6	0					0	0	0	0	0	4 4 4 4 12 24 24 0 3 3 3 3 3 0 6 6	
In the state of th	1020 1023 1020 1023 1020 1023 1020	Accelerated Calculus Required credits for School Requirements itives 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 Electives ints gree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	4 3 45-46 4 4 4 12 24 0 0 3 3 3 3 6		3	0	3	0	0	0	0	0	0	4 4 4 4 12 24 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
ATH TTH TTH TTH TTH TTH TTH TTH TTH TTH	1020 1023 1020 1023 1020 1023 1020	Accelerated Calculus Honors Calculus I Required credits for School Requirements Required credits for School Requirements 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 Electives Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	4 3 45-46 4 4 4 12 24 0 0 3 3 3 3 6		3	0	3	0 oerm load (ex	0	0	0	0	0	4 4 4 4 12 24 24 0 3 3 3 3 3 0 6 6	

- * 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.

<< Declaration of dec

CIMARK 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management		1		BEng ma	ајог	BBA maj	OI .	Student's	s Pathway	/			
Program:		Dual Degree Program (BEng in Civil Engineering and BBA in Marketing)													
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 Civ	/il Engineeri	na			g		g	_	g		g		g		
Major Require		9													
	lamental Courses		1	1		,	1	,	1	1	1	1	1	1	1
COMP COMP COMP	1021 1022P 2011	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++	3-4 3 3 4		3	ļ ļ		!						3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0	<u> </u>		<u> </u>						0	
CHEM CHEM	1010 1020	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA General Chemistry IB	3 3	3		<u>!</u> !		ļ						3	
LANG	2030	Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	3 4-7			İ		3						3	
MATH	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4			i		i							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	į		į						6	
MATH MATH MATH	1020 1023 1024	Accelerated Calculus Honors Calculus I Honors Calculus II	4 3 3			!		!							
MATH	2011	Introduction to Multivariable Calculus	3			3		<u> </u>						3	
MATH	2350	Applied Linear Algebra and Differential Equations Note: PHYS 1112 OR PHYS 1312	3			3		i 						3	
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3 3	3		<u>į</u>		<u>į</u>						3	
Major Required C	ourses and Electiv	Required credits for Engineering Fundamental Courses	22-26					<u> </u>						24	
CIVL	1010	Academic Professional Development I	0			0	0	i						0	
CIVL	1100 2010	Discovering Civil and Environmental Engineering Academic Professional Development II	3	1	3	<u>i</u>	-	0	0					3	
CIVL	2020	Industrial and BIM Training	0	1		0*	0							0	
CIVL	2110 2120	Statics Mechanics of Materials	3			3	3	!					1	3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500
CIVL	2170 2410	Infrastructure Systems Engineering and Management	3		Ī		3							3	
CIVL	2510	Environmental Assessment and Management Fluid Mechanics	3			<u> </u>	3	<u>i</u>						3	
CIVL	2810 3010	Construction Materials Academic Professional Development III	3			<u> </u>		3		0	0			3	
CIVL	3020	Internship Training	0			<u> </u>		<u> </u>		0	0^			0	
CIVL	3210 3310	Introduction to Construction Management Structural Analysis	3	1		<u> </u>		3	3					3	
CIVL	3320	Reinforced Concrete Design	3			<u> </u>			3					3	
CIVL	3510 3610	Hydrosystems Engineering Traffic and Transportation Engineering	3	1		i		3	3					3	
CIVL	3730	Fundamentals of Geotechnics	3			i 		ļ		3				3	
CIVL	3740	Geotechnical Analysis and Design Note: CIVL 4910 OR CIVL 4920	6	1		<u> </u>		<u> </u>			3			3	
CIVL CIVL	4910 4920	Civil and Environmental Engineering Final Year Project Civil and Environmental Engineering Final Year Thesis	6			!		! :				3	3	6	
CIVL	4950	Civil Engineering Capstone Design Project	3			<u> </u>						3		3	
ENGG LANG	2010 4033	Engineering Seminar Series Technical Communication II for Civil and Environmental Engineering	3	1		0	0	0	0			3		3	
CIVL/SENG		CIVL Electives (3 courses from the specified elective list) CIVL: Any CIVL courses at 4000-level or above except CIVL 4230 SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL	9			i i		i i			3	3	3	9	
BBA in Mar		uired credits for Major Requirements Courses and Electives	66	1		<u>i </u>		<u>i </u>						66	
School Requi	rements														
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3			3		i	3					3	
		Note: ECON 2103 OR ECON 2113				<u> </u>		<u> </u>	3						
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123	3		3	<u> </u>		<u> </u>						3	
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			<u>i</u>		3						3	
FINA ISOM	2303	Financial Management Introduction to Information Systems	3			 	3	<u> </u>						3 0	Substituted by COMP 1021/1022F
ISOM	2020	Coding for Business	1			!	1	<u> </u>						1	
ISOM ISOM	2500 2600	Business Statistics Introduction to Business Analytics	3 1			 -	1							1	Substituted by CIVL 2160
ISOM	2700	Operations Management	3			į		<u> </u>	3					3	MARK 2120 is a major pre-
MARK MGMT	2120	Marketing Management Business Ethics and the Individual	3	-		2	3	<u> </u>						3	requisite
MGMT	2110	Organizational Behavior	3			3		!						3	
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	0			<u>;</u> 		 					2	0	Waived for DDP students
LABU LABU	2040 2060	Business Case Analyses Effective Communication in Business	3			Ĭ		ļ		3			3	3	
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4	1		<u> </u>		İ		3				3	DDP students should take MATH
MATH MATH	1003 1012	Calculus and Linear Algebra Calculus IA	3 4	(3)		!		1						0	1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the
MATH MATH MATH	1013 1020 1023	Calculus IB Accelerated Calculus	3 4 3	/		i		:							requirements of both BEng and BBA degrees
		Honors Calculus Required credits for School Requirements	3 43-44			<u> </u>			<u>L</u>					36	
Major Required C															
Major Required C	ourses and Electiv	Ves Marketing Research	4			i		4						4	
MARK	3420	Consumer Behavior	4			:		i	4					4	
MARK	4210	Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as	12	-		<u> </u>		į				4	4	4	
MARK		specified) Required credits for Major Required Courses and Electives		1		!		i		4	4	4		12 24	
Additional I	Requirement	· · · · · · · · · · · · · · · · · · ·	<u> </u>	11	-1		1		1	1	1	1	I	·	<u> </u>
Requirements	for Dual Deg														
Required Courses	s 1010	Technology and Management Professional Activities	0	0	0	I 0	0	I 0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving	3	Ť	3	<u> </u>	Ļ	<u> </u>	Ľ		Ů	Ļ	Ľ	3	
University CC	RE	Required credits for Additional Requirements	3	1		İ	1	i	1	İ		1]	3	
CORE	C3 - C12	U CORE - Others	30	6		:		i		9	9	3	3	30	
CORE	C1 & C2	U CORE - English Language Sub-total for University CORE	6 36	3	3	i		<u> </u>						6 36	
<u> </u>			•					erm load (ex				· · · ·			•
				18	18	20	20	19 18	19 9##	19	19	19	18	1	
Notes:				-		<< Declar		<< Decla							

() indicates the reuse of the same course to fulfill more than one requirement.

- --- denotes the course/requirement is either waived or substituted ## To graduate, students should complete all requirements as specified for DDP.

COMARK 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management				BEING III	-,	BBA IIIaj		Student	's Pathway				
Program:		Dual Degree Program (BEng in Computer Science and BBA in Marketing)												
															-
Course			Ω	Yea	Year	Yea	Year	Yea	Year	Yea	Year	Yea	Year	Sut	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	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	
				=	ng	=	ng	= -	ng	=	ng	=	ng	_	
	mputer Scie	nce													
Major Require Engineering Fund	damental Courses														
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3		i		İ						3	This course will also be used to
COMP	1022P 1010	Introduction to Computing with Java Academic Orientation	3	0	0	<u> </u>		 						0	substitute ISOM 2010
ENGG	1010	Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR	0	1 -	0	<u> </u>		<u>.</u>						0	
CHEM CHEM	1004 1010	LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312 Chemistry in Everyday Life	3			į		į							
CHEM LIFS	1020 1901	General Chemistry IA General Chemistry IB General Biology I	3 3 3	3		ļ		ļ						3	
PHYS PHYS	1001 1112	Physics and the Modern Society General Physics I with Calculus	3			ļ									
PHYS LANG	1312	Honors General Physics I Technical Communication I	3			<u> </u>		1						3	
LANG	2030	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	3 4-7			<u> </u>		3						3	
MATH MATH	1012 1013	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB	4 3] :] }							
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4	3	3			ļ i						6	
MATH MATH	1023 1024	Honors Calculus II	3			 - 									
MATH	2111	Matrix Algebra and Applications Engineering Introduction course (COMP students may also use COMP1022P or	3			3		<u>:</u>						3	
SENG		COMP1022Q to fulfill this requirement) Required credits for Engineering Fundamental Courses	3-4 19-23	(3)		: 		<u>:</u> 						0 18	
Major Required C	Courses and Electi		19-23	I		-		-						10	
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4			4	4	i			1			8	
COMP COMP	2012 2012H	Object-Oriented Programming and Data Structures Honors Object-Oriented Programming and Data Structures	4 5			<u> </u>	4	<u>i</u>						°	
COMP	2611	Computer Organization Note: COMP2711 OR COMP2711H	4			<u> </u>			4					4	
COMP COMP	2711 2711H	Note: COMP2/11 OR COMP2/11H Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Science	4 4			4		į						4	
		Note: COMP3111 OR COMP3111H				<u> </u>				İ				_	
COMP	3111 3111H	Software Engineering Honors Software Engineering	4			<u>!</u>		4						4	
COMP	3511	Operating Systems Note: COMP3711 OR COMP3711H	3-4			<u> </u>				3				3	
COMP COMP	3711 3711H	Design and Analysis of Algorithms Honors Design and Analysis of Algorithms	3 4			<u> </u>		3						3	
		Note: Students are required to take COMP4900 for every regular term in which they are in residency at HKUST with major in COMP				0	0	0	0	0	0	0	0	0	
COMP	4900	Academic and Professional Development Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910	0 6			<u> </u>		<u>!</u>							
COMP COMP	1991 4981	Industrial Experience Final Year Project	0			! !		! !				3	3	6	
COMP COMP	4981H 4910	Final Year Thesis Co-op FYP Program	6 6			: 		i							
ELEC	2600	Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431 Probability and Random Processes in Engineering	3-4 4			<u>:</u> 		i							
IEDA IEDA	2520 2540	Probability for Engineers Statistics for Engineers	3			4		i I						4	Students should take MATH 2411 which will also be used to substitute
MATH MATH	2411 2421	Applied Statistics Probability	4			İ		i							ISOM 2500.
MATH ENGG	2431	Honors Probability Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Technical Communication II for CSE & CPEG COMP Electives (5 courses from the specified elective list, of which at least 3 courses	3					Ì				3		3	
COMP		should be taken from 1 area and at least 2 courses outside that area.) COMP Elective (Any 1 course offered under COMP)	15 3			<u> </u>		<u> </u>		3	6	3	3	15 3	
		uired credits for Major Requirements Courses and Electives	_			!		<u> </u>						57	
BBA in Mar															
School Requi	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3					i i	3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3			! !	3	:						3	
		Note: ECON 2123 OR ECON 3123				<u>:</u> 		<u>.</u> İ							
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			<u>.</u>		3						3	
FINA ISOM	2303	Financial Management Introduction to Information Systems	3			<u>:</u> 	3							3 0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1			i		1						1	
ISOM	2500 2600	Business Statistics Introduction to Business Analytics	3			<u> </u>	1	<u> </u>						0	Substituted by MATH 2411
ISOM	2700	Operations Management	3					Ì	3					3	
MARK MGMT	2120	Marketing Management Business Ethics and the Individual	3	-	3	<u> </u>	2	<u> </u>		-				3	MARK 2120 is a major pre-requisite
MGMT	2110	Organizational Behavior	3			3		!						3	
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	0			<u> </u> :		<u> </u>		2				0	Waived for DDP students
LABU	2040	Business Case Analyses	3			 	3	<u>† </u>						3	
LABU	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4	1		<u>!</u>		<u> </u>	3	-				3	DDP students should take MATH
MATH MATH	1003 1012	Calculus and Linear Algebra Calculus IA	3	(3)] :		! :						0	1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the
MATH MATH MATH	1013 1020 1023	Calculus IB Accelerated Calculus Honors Calculus I	3 4 3			: !		:							requirements of both BEng and BBA degrees
		Required credits for School Requirements				:								36	
Major Required C	ements Courses and Electi														
MARK	3220	Marketing Research	4		L		L	4		L	L	L	L	4	
MARK	3420	Consumer Behavior	4			[ĺ	4					4	
MARK MARK	4210	Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as	12	-		<u> </u>	1	i		4	4	4	4	12	
THE WAY	<u> </u>	specified) Required credits for Major Required Courses and Electives		1		<u>. </u>	1	<u> </u>		4	4	4	 	12 24	
	Requirement	ts		<u></u>				<u>-</u>							
Requirements	s for Dual Deg														
Required Course	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving	3		3	 		! 						3	
University CC	DRE	Required credits for Additional Requirements	3	1	1	<u>!</u>	<u> </u>	<u>. </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	3	<u> </u>
CORE	C3 - C12	U CORE - Others	30	6	3	.	3	i	3	6	9			30	
CORE	C1 & C2	U CORE - English Language Sub-total for University CORE	6 36	3	3	<u>: </u>	1	<u>:</u> 		 				6 36	
		<u>, </u>		18	18	18	19	erm load (ex	cl. free cred	its)	19	13	40		
				ıδ	1 18	Ιδ	1 19		20 4##	18	19	13	13]	
Notes:						<< Declar		<< Decla BBA maj							
() indicates the reuse	e of the same course to	o fulfill more than one requirement.				peny ma	ajoi	_⊔DA I∏āj	J.						

--- 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.

^() indicates the reuse of the same course to fulfill more than one requirement.

An Example on Student's Pathway

<< Declaration of | << Declaration of

CPMARK 2020-21 Intake

BBA major chool of Engineering and School of Business Management rogram: Oual Degree Program (BEng in Computer Engineering and BBA in Marketing) Remarks Course Code Course Title / Courses List Offering Dept **BEng in Computer Engineering** Major Requirements **Engineering Fundamental Courses** Note: COMP1021 OR COMP1022P This course will also be used to substit ISOM 2010 OMP Introduction to Computer Science 3 OMP ntroduction to Computing with Java ENGG 1010 Academic Orientation 0 ANG 2030 Note: I(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] матн 1012 1013 1014 1020 1023 MATH lonors Calculus I Ionors Calculus II MATH 2011 Introduction to Multivariable Calculus 3 3 MATH Matrix Algebra and Applications Note: PHYS1112 OR PHYS1312 General Physics I with Calculus Honors General Physics I 3 ote: PHYS1114 OR PHYS1314 ngineering Introduction course (If the students take an introduction course included in th 3-4 0 SENG (3) ajor, this course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 25-29 24 Major Required Courses and Electives Academic and Professional Development I 0 PEG 3930 Academic and Professional Development II 0 0 0 Note: (COMP2011 AND COMP2012) OR COMP2012H 5-8 Programming with C++
Object-Oriented Programming and Data Structures
Honors Object-Oriented Programming and Data Structures OMP 2012 OMP 2012H Note: COMP2611 OR ELEC2350 4 4 4 omputer Organization COMP 2611 4 ELEC troduction to Computer Organization and Design 4 4 4 4 Note: COMP2711 OR COMP2711H OR ELEC 2600 COMP COMP ELEC 2711 2711H 2600 iscrete Mathematical Tools for Computer Science onors Discrete Mathematical Tools for Computer Science onors Discrete Mathematical Tools for Computer Science robability and Random Processes in Engineering COMP 3511 Operating Systems Note: COMP4521 OR COMP4611 OR ELEC 4310 3-4 COMP 4521 Mobile Application Development Mobile Application Develoepment
Design and Analysis of Computer Architectures
Embedded System Design
FPCA-based Design: From Theory to Practice
Mobile Embedded Systems: Hardware Platform, Software Development, and Applications
Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912)
AND CPEC1971] OR CPEG4910
Industrial Experience 4611 4310 LEC 4320 4330 CPEG CPEG ndustrial Experience Computer Engineering Final Year Project in COMP Computer Engineering Final Year Thesis in COMP Computer Engineering Final Year Project in ELEC Computer Engineering Final Year Thesis in ELEC PEG PEG PEG 4902 4911 4912 CPEG 4910 Co-op Program ntroduction to Electro-Robot Design 4 4 ELEC 1100 Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) 1200 2100 2400 ELEC System View of Communications: from Signals to Packets LEC 3300 Introduction to Embedded Systems 4 ENGO 2010 Engineering Seminar Series lote: LANG4030 OR LANG4031

echnical Communication II for CSE & CPEG

echnical Communication II for ECE & CPEG 3 Area Courses (At least 4 courses from the specified elective list, of which at least 2 cours should be taken from one single area and at least 2 courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective requirement.) 15 COMP/ELEC 3 15 Required credits for Major Requirements Courses and Electives 59-63 62 **BBA** in Marketing School Requirements Principles of Accounting I 3 3 ACCT 2200 Principles of Accounting II 3 3 Note: ECON 2103 OR ECON 2113 ECON ECON Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I CON 2123 3123 3 3 FINA 2303 Financial Management 3 SOM 2010 Introduction to Information System 3 0 Substituted by COMP 1021/1022P ISOM 2020 Coding for Business 1 1 SOM Business Statistics 3 3 SOM 2600 Introduction to Business Analyti ISOM 2700 Operations Management 3 3 3 MARK 2120 is a major pre-requisite MARK 2120 Marketing Management 3 3 3 2010 Business Ethics and the Indi MGMT 2110 3 Business Ethics and Social Responsibility MGMT 2130 2 Waived for DDP students SBMT 1111 Business Student Induction 0 0 ABU 2040 3 Business Case Analyses ABU 2060 Effective Communication in Business 3 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 ИТА (3) MATH Required credits for School Requirements 43-44 Major Requirements Major Required Courses and Electives **IARK** 4210 Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) 12 Required credits for Major Required Courses and Electives 24 24 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities TEMG Required credits for Additional Requirements University CORE U CORF - Others U CORE - English Language C1 & C2 6 Sub-total for University CORE

Notes

--- denotes the course/requirement is either waived or substituted
To graduate, students should complete all requirements as specified for DDP

<< Declaration of Sex Declaration of BEng major BBA major

>> 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.

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^() indicates the reuse of the same course to fulfill more than one requirement.

School of Engineering and School of Business Management



Student's Pathway

<< Declaration of BEng major BBA major ≺< µeclarat BBA major

Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in ogram Remarks BEng in Civil and Environmental Engineering Major Requirements **Engineering Fundamental Courses** Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ This course will also be used to substitute ISOM 2010 3 1022P 2011 lote: CHEM 1010 OR CHEM 1020 3 General Chemistry IA General Chemistry IB CHEM Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 1012 1013 1014 1020 1023 1024 MATH MATH Calculus IB 3 Calculus II Accelerated Calculus Honors Calculus I Honors Calculus II MATH 2011 Introduction to Multivariable Calculus 3 3 Applied Linear Algebra and Differential Equations Note: PHYS 1112 OR PHYS 1312 Required credits for Engineering Fundamental Courses 22-26 24 Major Required Courses and Electives Discovering Civil and Environmental Engineering Academic Professional Development II 2020 Industrial and BIM Training 0 0* 0 2120 Mechanics of Materials Modeling Systems with Uncertainties Infrastructure Systems Engineering and Management 3 Environmental Assessment and Management 3 Fluid Mechanics 3 3 3010 Academic Professional Development III 0 0 0 Note: CIVL3210 OR CIVL3610 3 3 3 Traffic and Transportation Engineering Reinforced Concrete Design 3 Hydrosystems Engineering Fundamentals of Geotechnics 3740 Geotechnical Analysis and Design 3 te: CIVL 4910 OR CIVL 4920 6 3 6 4910 Civil and Environmental Engineering Final Year Project 3 4920 Civil and Environmental Engineering Final Year Thesis Civil Engineering Capstone Design Project 3 Note: CIVL4450 OR CIVL 5450 OR CIVL5460
Carbon Footprint Analysis and Reduction
Hazardous Waste Treatment and Site Remediation 3 Landfill Engineering and Design Engineering Seminar Series 0 CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted Restricted electives: at least 1 course AND (CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted Electives" from the list OR SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL) IVL/SENG Required credits for Major Requirements Courses and Electives **BBA** in Marketing School Requirements Principles of Accounting I Principles of Accounting II

Note: ECON 2103 OR ECON 2113

Principles of Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomic Theory I ECON FINA 2303 Financial Management 3 3 Substituted by COMP ISOM 2010 Introduction to Information Systems 3 ------0 1021/1022P/2011 ISOM 2020 Coding for Business Substituted by CIVL 2160 Operations Management Marketing Management MGMT 2010 Business Ethics and the Individual 2 2 2 MARK 2120 is a major pre-requis Organizational Behavio usiness Ethics and Social Responsibility Substituted by ENGG 1010 Business Case Analyses Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra 1003 1012 1013 MATH MATH or MATH 1023 to satisfy the equirements of both BEng and BB/ (3) 0 ccelerated Calculus onors Calculus I degrees Required credits for School Requirements Major Requirements Major Required Courses and Electives Marketing Research 3420 Strategic Marketing 4 12 Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required 3950 Required credits for Additional Requirements University CORE U CORE - Others C3 - C12 30 3 U CORE - English Language Sub-total for University CORE Notes e Declaration () indicates the reuse of the same course to fulfill more than one requirement

Courses offered in winter term ^ Courses offered in summer term

To graduate, students should complete all requirements as specified for DDP.

School of Engineering and School of Business Management

School:

An Example on Student's Pathway

Student's Pathway

2020-21 Intake

DAMARK

(Via DDP PBA)

<< Declaration of BEng major << Declaration of BBA major

Program:															
_		Dual Degree Program (BEng in Decision Analytics and BBA in Marketing)													
Course					~		~	!	~		~		~		
Course Offering	Course		Ç	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
Dept course	Code	Course Title / Courses List	Credits	-1 F	1 Sp	72 F	2 Sp	r3F	3 Sp	7.4 F	4 Sp	5 F	5 Sp	o-tot	
de prefix)			O)	a	ring	≅	Spring	≅	ring	a a	ring	<u>a</u>	ring	<u>a</u>	
Ena	in Doc	picion Analytica						<u></u>							
Elig	III Dec	cision Analytics													
	equirem														
ngineeri	ng Fundam	nental Courses Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4	1	1		1	•	1	1	l		1		1
OMP	1021	Introduction to Computer Science	3		3	:		!						3	This course will also be use
OMP OMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4		Ü	ļ		•							substitute ISOM 2010
NGG	1010	Academic Orientation	0	0	0	†		<u> </u>						0	
		Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312	-	_	-	.		i						-	
HEM HEM	1010 1020	General Chemistry IA	3	3		ļ		İ						3	
HYS	1112	General Chemistry IB General Physics I with Calculus	3	3		i		Ī						3	
HYS	1312	Honors General Physics I	3			<u> </u>									
NG	2030	Technical Communication I	3				3	<u> </u>						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7					<u> </u>							
ATH	1012	Calculus IA	4			!		ĺ							
ATH ATH	1013 1014	Calculus IB Calculus II	3	3	3	i		i						6	
ATH	1020	Accelerated Calculus	4			į		<u> </u>							
ATH ATH	1023 1024	Honors Calculus I Honors Calculus II	3			Į.		! !							
ATH	2011	Introduction to Multivariable Calculus	3				3							3	
ATH	2111	Matrix Algebra and Applications	3			3		<u> </u>						3	
	2111	Engineering Introduction course (If the students take an introduction course included in their major, this				i		•						_	
NG		course can be counted towards their major requirement.)	3-4		(3)	<u> </u>								0	
		Required credits for Engineering Fundamental Courses	22-27			I		1 1						21	
•	·	rses and Electives													
DA	1010	Academic and Professional Development I	0			0	0							0	<u> </u>
DA	1020	Academic and Professional Development II	0			<u></u>		0	0					0	
.DA	1000	Note: IEDA1990 OR IEDA1991						0			_	_	0		
DA DA	1990 1991	Industrial Training Industrial Experience	0		ĺ	0	0	ľ	0	0	0	0	U	0	
DA	2520	Probaility for Engineers	3			3								3	
:DA	2540	Statistics for Engineers	3			:	3	<u> </u>						3	This course will also be use
	3010					 	<u> </u>		<u> </u>	 					substitute ISOM2500
DA		Prescriptive Analytics	3			-		3	-	<u> </u>				3	1
:DA	3230	Engineering Economics and Accounting	3		ļ	<u>!</u>	3	.	1	 			ļ	3	
DA	3250	Stochastic Models	3			<u>i </u>		<u>.</u>	3					3	<u> </u>
DA	3300	Industrial Data Systems	3			<u>.</u>	3	! !						3	<u> </u>
DA	3560	Predictive Analytics	3			ļ			3					3	
		Note: IEDA4901 OR IEDA4920	_			i						_	_	_	
DA DA	4901 4920	Final Year Thesis Decision Analytics Final Year Project	6 6			! !		İ				3	3	6	
NGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
		Note: ECON2103 OR ECON2113				!		<u> </u>							
CON	2103	Principles of Microeconomics	3			3		<u> </u>						3	
CON	2113	Microeconomics	3			! 		<u> </u>	_					_	
ANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3			<u>!</u>			3					3	
DA		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the same area)	15			i			3	6	3	3		15	
	•	Required credits for Major Required Courses and Electives	48			:								48	
RR∆ ir	n Marke	tina													
School	Require	mante													
	2010		3	1							l	1		3	
ССТ		Principles of Accounting I	_			3		<u> </u>							
CCT	2200	Principles of Accounting II	3			<u> </u>		<u> </u>		3				3	
		Note: ECON 2103 OR ECON 2113				(3)		<u> </u>						0	
CON	2103	IPrinciples of Microeconomics	3					<u> </u>							
CON CON	2103 2113	Principles of Microeconomics Microeconomics	3 3												
CON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3			<u>!</u>		Ī							
CON	2103 2113 2123 3123	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics				 		i i				3		3	
CON CON CON	2113 2123 3123	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3			! !		3				3			
CON CON CON	2113 2123 3123 2303	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management	3 3 3		_	 	_	3	_	_		3	_	3	Substituted by COMP
CON CON CON INA	2113 2123 3123 2303 2010	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems	3 3 3 3	-	-		-		-	-	-	-	-	3	Substituted by COMP 1021/1022P/2011
CON CON CON INA GOM GOM	2113 2123 3123 2303 2010 2020	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business	3 3 3 3 3	-		 	-	3 - 1	-	-		-		3 0 1	1021/1022P/2011
CON CON CON INA GOM GOM GOM	2113 2123 3123 2303 2010 2020 2500	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics	3 3 3 3 1 1	-	-		-	- 1 -	-	-	-		-	3 0 1 0	1021/1022P/2011
CON CON CON INA SOM SOM SOM	2113 2123 3123 2303 2010 2020 2500 2600	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics	3 3 3 3 1 1	-			-		-	-	-			3 0 1 0	1021/1022P/2011
CON CON CON INA SOM SOM SOM SOM	2113 2123 3123 2303 2010 2020 2500 2600 2700	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management	3 3 3 3 1 1 3	-			-	- 1 -		-		-		3 0 1 0 1 3	1021/1022P/2011 Substituted by IEDA2540
CON CON CON INA SOM SOM SOM SOM SOM SOM SOM	2113 2123 3123 2303 2010 2020 2500 2600 2700 2120	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management	3 3 3 3 1 1 3 1 3	-		-	-	- 1 - 1	-	-	-	-		3 0 1 0 1 3 3	1021/1022P/2011 Substituted by IEDA254(
CON CON CON INA SOM SOM SOM SOM SOM	2113 2123 3123 2303 2010 2020 2500 2600 2700	Microeconomics Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I Financial Management Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management	3 3 3 3 1 1 3	-		3	-	- 1 -	-	-	-	-		3 0 1 0 1 3	1021/1022P/2011 Substituted by IEDA2540 MARK 2120 is a major pr
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CON CON CON INA SOM SOM SOM SOM SOM SOM SOM SOM SOM SOM	2113 2123 3123 2303 2010 2020 2500 2600 2700 2120 2010	Microeconomics Note: ECON 2123 OR ECON 3123 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 3 1 1 3 1 3 2	-			-	- 1 - 1	-		-	-		3 0 1 0 1 3 3	1021/1022P/2011 Substituted by IEDA2540 MARK 2120 is a major pre
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ECON ECON ECON FINA SOM SOM SOM SOM SOM WARK WIGHT WIGHT ABU ABU WATH WATH	2113 2123 3123 2303 2010 2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013	Microeconomics Note: ECON 2123 OR ECON 3123 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 IA Calculus IA	3 3 3 3 1 1 3 1 3 2 3 2 0 3 3 3 4 3 4 3		-	3	-	- 1 - 1 2			3	-	-	3 0 1 0 1 3 3 3 2 3 2 0 3	MARK 2120 is a major pre- requisite Waived for DDP students DDP students should take MA 1012 or MATH 1013 or MAT 1020 or MATH 1021 to salts
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CON CON CON CON CON CON CON CON CON CON	2113 2123 3123 2303 2010 2020 2500 2500 2700 2110 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Requirem quired Courses Courses	Microeconomics 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 Ethics and Social Responsibility 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 I Required credits for School Requirements ents rses and Electives 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 Electives quirements or Dual Degree Program	3 3 3 3 1 1 3 1 1 3 3 2 0 3 2 0 3 3 4 4 4 4 4 4 4 4 4 12 24	(3)		3		- 1 1 - 1 1 2 2 3 3 3 4 4	4	4	3 3 3	- 4	- 4	3 0 1 0 1 3 3 2 3 2 0 3 3 2 0 3 3 3 4 4 4 4 4 12 24	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take M 1012 or MATH 1013 or MA 1020 or MATH 1031 to sat the requirements of both Bit
CON CON CON CON CON NA OM OM OM OM OM OM OM SMT SMT SMT SMT SMT SMT SMT SMT SMT SM	2113 2123 3123 2203 2010 2020 2500 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Requirem quired Courses 1010 Courses 1010	Microeconomics Note: ECON 2123 OR ECON 3123 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 I Required credits for School Requirements ents rses and Electives 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 Electives quirements probable of the subject and level as specified) Required credits for Major Required Courses and Electives quirements rechnology and Management Professional Activities	3 3 3 3 3 1 3 1 3 3 1 3 2 3 2 0 3 3 4 3 4 3 4 4 3 4 4 4 4 4 4 12 24	-	-	3	-	- 1 - 1 1	-	-	3		-	3 0 1 0 1 3 3 2 3 2 0 3 3 2 0 3 3 3 4 4 4 4 4 12 24	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take M 1012 or MATH 1013 or MA 1020 or MATH 1031 to sat the requirements of both Bit
CON CON CON CON CON CON CON CON CON CON	2113 2123 3123 2303 2010 2020 2500 2500 2700 2110 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Requirem quired Courses Courses	Microeconomics Note: ECON 2123 OR ECON 3123 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 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 IA Calculus IB Accelerated Calculus I Required credits for School Requirements ents rses and Electives 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 Electives quirements pr Dual Degree Program Technology and Management Professional Activities Case-based Problem Solving	3 3 3 3 3 1 1 3 1 3 1 3 2 3 2 0 3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(3)		3		- 1 1 - 1 1 2 2 3 3 3 4 4	4	4	3 3 3	- 4	- 4	3 0 1 0 1 3 3 2 3 2 0 3 3 3 0 3 3 4 4 4 4 12 24	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take N 1012 or MATH 1013 or MM 1020 or MATH 1013 to sat the requirements of both Bi
CON CON CON CON NA OM OM OM OM OM OM OM OM OM OM OM OM OM	2113 2123 3123 2203 2010 2202 2202 2200 2600 2700 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 220 3420 4210 Courses 1010 3950	Microeconomics 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 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ents rses and Electives 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 Electives quirements Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements Required credits for Additional Requirements	3 3 3 3 3 1 1 3 1 3 1 3 2 3 2 0 3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(3)	-	3		- 1 1 - 1 1 2 2 3 3 3 4 4	4	4	3 3 3	- 4	- 4	3 0 1 0 1 3 3 2 3 2 0 3 3 2 0 3 3 3 4 4 4 4 4 12 24	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take N 1012 or MATH 1013 or MM 1020 or MATH 1013 to sat the requirements of both Bi
CON CON CON CON NA OM OM OM OM OM OM OM OM OM OM OM OM OM	2113 2123 3123 2030 2010 2020 2020 2020	Microeconomics 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 Student Induction 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ents rese and Electives 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 Electives quirements or Dual Degree Program Required credits for Additional Requirements E Required credits for Additional Requirements Case-based Problem Solving	3 3 3 3 3 1 1 3 1 3 1 3 2 3 2 0 3 3 4 3 4 4 4 4 4 4 12 24	(3)	- 0 3	3	0	- 1 1 - 1 1 2 2 3 3 3 4 4	4	4	3 3 3 4 4 0 0	- 4	- 4	3 0 1 1 0 0 1 1 3 3 3 2 2 0 0 3 3 3 3 4 4 4 4 1 1 2 2 4 4 1 2 2 4 1 2 2 4 1 2 2 4 1 2 2 4 1 2 1 2	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take N 1012 or MATH 1013 to salt the requirements of both B
CON CON CON CON CON CON CON CON CON CON	2113 2123 3123 2203 2010 2202 2202 2200 2600 2700 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 220 3420 4210 Courses 1010 3950	Microeconomics 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 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ents rses and Electives 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 Electives quirements Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements Required credits for Additional Requirements	3 3 3 3 3 1 1 3 1 3 1 3 2 3 2 0 3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(3)	-	3		- 1 1 - 1 1 2 2 3 3 3 4 4	4	4	3 3 3	- 4	- 4	3 0 1 0 1 3 3 2 3 2 0 3 3 3 0 3 3 4 4 4 4 12 24	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take N 1012 or MATH 1013 to salt the requirements of both B
CON CON CON CON CON CON CON CON CON CON	2113 2123 3123 2030 2010 2020 2020 2020	Microeconomics 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 Student Induction 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ents rese and Electives 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 Electives quirements or Dual Degree Program Required credits for Additional Requirements E Required credits for Additional Requirements Case-based Problem Solving	3 3 3 3 3 1 1 3 1 3 1 3 2 3 2 0 3 3 4 3 4 4 4 4 4 4 12 24	(3)	- 0 3	3	0	- 1 1 - 1 1 2 2 3 3 3 4 4	4	4	3 3 3 4 4 0 0	- 4	- 4	3 0 1 1 0 0 1 1 3 3 3 2 2 0 0 3 3 3 3 4 4 4 4 1 1 2 2 4 4 1 2 2 4 1 2 2 4 1 2 2 4 1 2 2 4 1 2 1 2	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take N 1012 or MATH 1013 or MM 1020 or MATH 1013 to sat the requirements of both Bi
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CON CON CON CON CON CON CON CON CON CON	2113 2123 3123 2203 2010 2020 2500 2600 2700 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 220 3420 4210 Courses 1010 3950 Sity CORI C3 - C12	Microeconomics Note: ECON 2123 OR ECON 3123 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 Student Induction 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 Requirements ents rses and Electives 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 Electives quirements rtechnology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements E U CORE - English Language	3 3 3 3 1 1 3 3 1 1 3 3 2 3 2 0 3 3 3 4 4 4 4 4 4 4 4 12 24	(3)		3	0	- 1 1 - 1 1 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4	4	3 3 3 4 4 0 0	- 4	- 4	3 0 0 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 3 3 4 4 4 4 4 1 1 2 2 4 4 4 1 2 2 4 4 4 5 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	MARK 2120 is a major pr requisite Waived for DDP students DDP students should take M 1012 or MATH 1013 or MA 1020 or MATH 1023 to salt the requirements of both Bt
CON CON CON CON NA OM OM OM OM OM OM OM OM OM OM ARK GMT GMT GMT GMT GMT GMT GMT GMT GMT GMT	2113 2123 3123 2203 2010 2020 2500 2600 2700 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 220 3420 4210 Courses 1010 3950 Sity CORI C3 - C12	Microeconomics Note: ECON 2123 OR ECON 3123 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 Student Induction 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 Requirements ents rses and Electives 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 Electives quirements rtechnology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements E U CORE - English Language	3 3 3 3 1 1 3 3 1 1 3 3 2 3 2 0 3 3 3 4 4 4 4 4 4 4 4 12 24	(3)		3	0	- 1 1 - 1 1 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4	4	3 3 3 4 4 0 0	- 4	- 4	3 0 0 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 3 3 4 4 4 4 4 1 1 2 2 4 4 4 1 2 2 4 4 4 5 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	MARK 2120 is a major pro- requisite Waived for DDP students DDP students should take M 1012 or MATH 1013 or MA 1020 or MATH 1023 to sait the requirements of both BE
CON CON CON CON CON CON CON CON CON CON	2113 2123 3123 2203 2010 2020 2500 2600 2700 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 220 3420 4210 Courses 1010 3950 Sity CORI C3 - C12	Microeconomics Note: ECON 2123 OR ECON 3123 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 Student Induction 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 Requirements ents rses and Electives 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 Electives quirements rtechnology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements E U CORE - English Language	3 3 3 3 1 1 3 3 1 1 3 3 2 3 2 0 3 3 3 4 4 4 4 4 4 4 4 12 24	(3) 0			0	- 1 1 - 1 1 2 2 - 3 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	d 4 d d d d d d d d d d d d d d d d d d	4	- - 3 3 - - 3	- 4		3 0 0 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 3 3 4 4 4 4 4 1 1 2 2 4 4 4 1 2 2 4 4 4 5 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	MARK 2120 is a major pro- requisite Waived for DDP students DDP students should take M 1012 or MATH 1013 or MA 1020 or MATH 1023 to sait the requirements of both BE
ON ON ON ON ON ON ON ON ON ON ON ON ON O	2113 2123 3123 2203 2010 2020 2500 2600 2700 2110 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 220 3420 4210 Courses 1010 3950 Sity CORI C3 - C12	Microeconomics Note: ECON 2123 OR ECON 3123 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 Student Induction 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 Requirements ents rses and Electives 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 Electives quirements rtechnology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements E U CORE - English Language	3 3 3 3 1 1 3 3 1 1 3 3 2 3 2 0 3 3 3 4 4 4 4 4 4 4 4 12 24	(3) 0			0	- 1 1 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 xcl. free credits) 16	4	- - 3 3 - - 3	- 4		3 0 0 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 3 3 4 4 4 4 4 1 1 2 2 4 4 4 1 2 2 4 4 4 5 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	MARK 2120 is a major pr requisite Waived for DDP student DDP students should take N 1012 or MATH 1013 to salt the requirements of both B

--- denotes the course/requirement is either waived or substitued

To graduate, students should complete all requirements specified for DDP. **Remarks on course(s):

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

EEMARK 2020-21 Intake (Via DDP PBA)

<< Declaration of | << Declaration of

BBA major

BEng major

School of Engineering and School of Business Management School: Student's Pathway Dual Degree Program (BEng in Electronic Engineering and BBA in Marketing) Program: Remarks Offering Dept. Course Code Course Title / Courses List BEng in Electronic Engineering Major Requirements Engineering Fundamental Courses Note: ELEC2600 OR ELEC2600H) OR MATH2011 OR MATH2111 OR MATH2350 OR MATH 2351 (3 courses out of 6)
Probability and Random Processes in Engineering **ELEC** 2600H Honors Probability and Random Processes in Engineering 3 3 3 MATH ntroduction to Multivariable Calculus Matrix Algebra and Applications
Applied Linear Algebra and Differential Equations MATH MATH MATH 2351 ntroduction to Differential Equations Note: COMP1021 OR COMP1022P Introduction to Computer Science COMP COMP 1022F ntroduction to Computing with Java COMP 2011 Programming with C++ 4 4 ENGG 1010 Academic Orientation 0 0 0 0 LANG 2030 Technical Communication 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 4-7 MATH Calculus IA MATH 1013 Calculus IB 3 MATH Calculus II 1020 Accelerated Calculus MATH 1023 Honors Calculus I 1024 Note: PHYS1112 OR PHYS1312 General Physics I with Calculus 3 3 PHYS 1312 Honors General Physics I Note: PHYS1114 OR PHYS1314 3 3 PHYS Engineering Introduction course (If the students take an introduction course included in thei major, this course can be counted towards their major requirement.) SENG 3-4 (3) 0 Required credits for Engineering Fundamental Courses 32-37 31 Major Required Courses and Electives ELEC 1100 troduction to Electro-Robot Design ELEC A System View of Communications: from Signals to Packets Note: ELEC2100 OR ELEC2100H lonors Signals and Systems ELEC 2100H **ELEC** 2350 Introduction to Computer Organization and Design 4 4 ELEC 2400 Electronic Circuits 4 4 ELEC 2910 Academic and Professional Development I 0 0 0 ELEC 3910 Academic and Professional Development II 0 0 0 0 Note: (ELEC4900 AND ELEC2991) OR (ELEC4901 AND ELEC2991) OR ELEC4910 (Students taking the Research Option must take ELEC 4901) 6 4900 Final Year Design Project 6 **ELEC** 4901 Final Year Thesis ndustrial Experience (Electronic Engineering) Co-op Program ENGG 2010 Engineering Seminar Series 0 0 4031 Technical Communication II for ECE & CPEG ELEC 3000-level or 4000-level Electives (Any 2 courses ELEC 4000-levek course ELEC 21 3 3 3 21 Required credits for Major Requirements Courses and Electives 50 50 **BBA** in Marketing School Requirements ACCT 2010 Principles of Accounting I 3 3 3 ACCT 2200 Principles of Accounting II 3 3 Note: ECON2103 OR ECON2113 Principles of Microeconomics 3 ECON 2113 Note: ECON2123 OR ECON3123 ECON 2123 3 3 3 INA 2303 inancial Management 3 Substituted by COMP 1021/1022P ISOM 2010 Introduction to Information Systems 3 0 ISOM 2020 Coding for Business 1 1 ISOM 2500 Business Statistics 3 3 3 ISOM 2600 Introduction to Business Analytics 1 1 ISOM Operations Managemen 3 MARK 2120 Marketing Management 3 3 MARK 2120 is a major pre-requisit MGMT 2010 Business Ethics and the Individual 2 2 MGMT 2110 Organizational Behavior 3 3 MGMT 2130 Business Ethics and Social Responsibility 2 2 Waived for DDP students SBMT 1111 Business Student Induction 0 0 LABU 2040 Business Case Analyses 3 3 LABU 2060 Effective Communication in Business 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DDP students should take MATH MATH 1003 Calculus and Linear Algebra (3) 1012 or MATH 1013 or MATH 1020 1012 1013 or MATH 1023 to satisfy the MATH MATH ents of both BEng and BB 1020 ccelerated Calculus degrees MATH 1023 onors Calculus I Required credits for School Requirements 43-44 Major Requirements Major Required Courses and Electives 3220 Marketing Research MARK MARK Strategic Marketing MARK 4210 4 4 MARK MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) 12 Required credits for Major Required Courses and Electives 24 Additional Requirements Requirements for Dual Degree Program Required Courses echnology and Management Professional Activities 0 TEMG Case-based Problem Solving 3950 3 3 Required credits for Additional Requirements 3 **University CORE** C3 - C12 U CORE - Others CORE 30 30 C1 & C2 U CORE - English Language 6 6 Sub-total for University CORE Term load (excl. free credits) 19 20 20 183##

Notes:

<< Declaration of SEng major BBA major

⁽⁾ indicates the reuse of the same course to fulfill more than one requirement.

⁻⁻⁻ denotes the course/requirement is either waived or substituted

^{##} To graduate, students should complete all requirements as specified for DDP

>> 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

School of Engineering and School of Business Management

School:

IEMARK 2020-21 Intake

An Example on Student's Pathway

<< Declaration of BEng major BBA major

Student's Pathway

Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in Marketing) Remarks Course Code Course Title / Courses List Offering Dept course code prefix) BEng in Industrial Engineering and Engineering Management **Major Requirements** Engineering Fundamental Courses lote: COMP1021 OR COMP1022P OR COMP2011 3-4 Introduction to Computer Science
Introduction to Computing with Java This course will also be used to substitute ISOM 2010 OMP rogramming with C++ ENGG 1010 Academic Orientation 0 0 Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA
General Chemistry IB HEM 1010 PHYS 112 Seneral Physics I with Calculus PHYS 1312 lonors General Physics I LANG 2030 Technical Communication I 3 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA MATH 1013 Calculus IB 6 3 MATH 1014 Calculus II 1020 Accelerated Calculus MATH 1024 Honors Calculus II ИΤΑΝ Introduction to Multivariable Calculus 3 2011 3 Matrix Algebra and Applications ИΤΑΝ Engineering Introduction course (If the students take an introduction course included in SENG 3-4 (3) 0 heir major, this course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 22-27 21 Major Required Courses and Electives Academic and Professional Development I EDA 1020 Academic and Professional Development II 0 0 0 0 Note: IEDA1990 OR IEDA1991 0 0* 0^ 0 IEDA 1990 Industrial Training ndustrial Experience IEDA 2520 Probability for Engineers 3 3 3 EDA 2540 3 3 Statistics for Engineers 3 substitute ISOM2500 IEDA 3010 Presciptive Analytics IEDA 3230 Engineering Economics and Accounting 3 EDA 3250 Stochastic Models EDA 3300 3 Industrial Data Systems This course will also be used to 3 EDA 4100 Integrated Production Systems 3 3 EDA 4130 System Simulation 3 Note: IEDA4901 OR IEDA4990 6 EDA Final Year Thesis 3 6 6 ering Management Final Year Projec ndustrial Engineering and Engir ENGG 2010 Engineering Seminar Series 0 0 0 0 0 Note: ECON 2103 OR ECON 2113 3 3 CON 113 Microeconomics 4032 Technical Communication II for Industrial Engineering and Decision Analytics .ANG 3 3 3 Industrial Engineering Electives (Courses from the specified 21 21 6 3 3 21 EDA elective list, of which at least 15 credits should be taken from 1 3 6 of the 2 areas and at least 6 credits outside that area.) Required credits for Major Requirements Courses and Electives 57 57 **BBA** in Marketing **School Requirements** Principles of Accounting I CCT 2200 Principles of Accounting II 3 3 3 Note: ECON 2103 OR ECON 2113 (3) 0 Principles of Micro CON 2113 Note: ECON 2123 OR ECON 3123 Macroeconomic Theory I ECON 3123 INA 2303 Financial Management 3 3 Substituted by COMP 1021/1022P SOM 2010 0 Introduction to Information Systems 3 SOM 2020 Coding for Business 1 1 SOM 2500 Substituted by IEDA2540 Business Statistics 3 0 SOM Introduction to Business Analytics 2600 1 SOM Substituted by IEDA 4100 2700 Operations Management 3 0 ИARK 2120 Marketing Management 3 3 3 MARK 2120 is a major pre-requisite 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 SBMT 1111 **Business Student Induction** 0 0 Waived for DDP students LABU 2040 Business Case Analyses 3 3 3 LABU 2060 Effective Communication in Business 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH иатн 1003 012 or MATH 1013 or MATH 102 or MATH 1023 to satisfy the MATH MATH 0 (3) 1013 Calculus IB requirements of both BEng and MATH 1020 accelerated Calculus BBA degrees ΛΑΤΗ lonors Calculus I Required credits for School Requirements 43-44 30 **Major Requirements** Major Required Courses and Electives ИARK 3220 Marketing Research //ARK 3420 4 4 Consumer Behavior MARK 3000-level or above Electives (Any 3 courses of the subject and level as /ARK 12 12 Required credits for Major Required Courses and Electives 24 Additional Requirements Requirements for Dual Degree Program Required Courses 3950 Required credits for Additional Requirements **University CORE** CORE C3 - C12 U CORE - Others 30 6 30 C1 & C2 U CORE - English Language 6 6 Sub-total for University CORE 36 36 18 18 18 18 18 19 18 16 15 13 << Declaration of << Declaration of Notes BEng major BBA 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.

>> 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.

An Example on Student's Pathway

<< Declaration of Seng major SBA major

MEMARK 2020-21 Intake (Via DDP PBA)

Program:		School of Engineering and School of Business Management						BBA maj		Studer	t's Pathway				
Course		Dual Degree Program (BEng in Mechanical Engineering and BBA in Mark	keting)												
Course			Ω	Yea	Year	Yea	Year	Yea	Year	Yea	Year	Yea	Year	Sut	Remarks
Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	1 %	Year 2 Fall	2 Sp	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	
BEng in Med Major Require		gineering													
Engineering Funda		S													
COMP	1021 1022P	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science Introduction to Computing with Java	3-4 3 3	3		i i		i i						3	This course will also be used to substitute ISOM 2010
	2011 1010	Programming with C++ Academic Orientation	0	0	0	<u>; </u>		<u>; </u>						0	
LANG :	2030	Technical Communication I	3			<u>i </u>	3	j						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			į		į							
MATH	1012 1013	Calculus IA Calculus IB	3	3	3	į		į						6	
MATH	1014 1020	Calculus II Accelerated Calculus	3 4			į		į							
MATH	1023 1024	Honors Calculus I Honors Calculus II	3 3			<u> </u>		<u> </u>							
MATH :	2011	Introduction to Multivariable Calculus Note: MATH2111 OR MATH2350 OR MATH2351	3			<u> </u>		3						3	
MATH :	2111 2350	Matrix Algebra and Applications Applied Linear Algebra and Differential Equations	3 3			 -		 -		3				3	
MATH :	2351	Introduction to Differential Equations Note: PHYS1112 OR PHYS1312	3			<u> </u>		<u> </u>							
	1112 1312	General Physics I with Calculus Honors General Physics I	3		3	<u>:</u> 		<u> </u>						3	
CHEM/LIFS/ PHYS	1012	Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)	<u>:</u> I		<u>:</u> i						0	
Major Required Co	Ourses and Fla	Required credits for Engineering Fundamental Course	22-26											21	
MECH	1990	Industrial Training	0			0*	0^	<u> </u>						0	
	2020 2040	Statics and Dynamics Solid Mechanics I	3			3			3					3	
MECH :	2210	Fluid Mechanics	3			<u>.</u>		<u> </u>	3					3	
	2310 2410	Thermodynamics Engineering Materials I	3		+	3	3	<u> </u>						3	
MECH :	2520	Design and Manufacturing I	3			<u> </u>	3	<u> </u>						3	
	2907 3030	Mechatronic Design and Prototyping Mechanisms of Machinery	3	-		<u> </u>		<u> </u>	3		3			3	
		Note: MECH3300 OR MECH3420 OR MECH3520				!		 							
MECH :	3300 3420	Energy Conversion Engineering Materials II	3			 -		<u> </u>		3				3	
	3520 3310	Design and Manufacturing II Heat Transfer	3			<u> </u>		<u> </u>			3			3	
MECH :	3610	Control Principles	3					3						3	
	3630 3830	Electrical Technology Laboratory	3			<u> </u>		! :	3		3			3	
MECH 4	4900	Final Year Design Project	6			:		:				3	3	6	
	2420 2010	Basic Electronics Engineering Seminar Series	0			3	0	0	0					3	
LANG	4034	Technical Communication II for Mechanical and Areospace Engineering	3			:		<u> </u>			3			3	
BBA in Mark		quired credits for major Requirements courses and Elective	S 51	<u> </u>		<u> </u>		<u>i</u>						51	
School Requir															
	2010	Principles of Accounting I	3			3		<u>i </u>						3	
	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3			•		İ	3					3	
	2103 2113	Principles of Microeconomics Microeconomics	3			3		į						3	
ECON :	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3	
ECON ;	3123 2303	Macroeconomic Theory I	3			1	3	<u>ļ</u>							
FINA		Financial Management													
¹SOM	2010	Financial Management Introduction to Information Systems	3		<u> </u>	<u> </u>		:						3	Substituted by COMP
	2010 2020	Introduction to Information Systems Coding for Business	3 3			 	-	 1							Substituted by COMP 1021/1022P/2011
ISOM :	2020 2500	Introduction to Information Systems Coding for Business Business Statistics	3 1 3			3	-	1						3 0 1 3	Substituted by COMP 1021/1022P/2011
ISOM :	2020	Introduction to Information Systems Coding for Business	3				-			3				3 0 1	Substituted by COMP 1021/1022P/2011
ISOM : IS	2020 2500 2600 2700 2120	Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management	3 1 3 1 3 3				-	1						3 0 1 3 1 3 3	1021/1022P/2011
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700	Introduction to Information Systems Coding for Business Business Statistics Introduction to Business Analytics Operations Management	3 1 3 1 3					1				2		3 0 1 3 1 3	1021/1022P/2011
ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT	2020 2500 2600 2700 2120 2010 2110 2130	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	3 1 3 1 3 3 2 3 2			3	3	1		3		2	2	3 0 1 3 1 3 3 2 3 2	MARK 2120 is a major pre-requis
ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT SBMT	2020 2500 2600 2700 2120 2010 2110	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 1 3 1 3 3 2 3				3	1						3 0 1 3 1 3 3 2 3	1021/1022P/2011
ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU	2020 2500 2600 2700 2120 2010 2110 2130	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	3 1 3 1 3 3 2 3 2 0 3 3 3			3	3	1		3		2	2	3 0 1 3 1 3 3 2 3 2	MARK 2120 is a major pre-requit
ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060	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	3 1 3 1 3 3 2 3 2 0 3 3 3 3 3 2 0 3 3 3 3 3 3 3			3	3	1		3		2	2	3 0 1 3 1 3 3 2 3 2 0 3	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MAT
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013	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 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 IA	3 1 3 1 3 3 2 2 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			3	3	1		3		2	2	3 0 1 3 1 3 3 2 3 2 0 3	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MATI 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the
ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060	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 IA Calculus IB Accelerated Calculus Honors Calculus I	3 1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3			3	3	1		3		2	2	3 0 1 3 1 3 3 2 3 2 0 3 3 3	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MATI 1012 or MATH 1013 or MATH 1013 or MATH 10
ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023	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 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 IA Calculus IB Accelerated Calculus	3 1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3			3	3	1		3		2	2	3 0 1 3 1 3 2 3 2 3 2 0 3 3 3	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023	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 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirement	3 1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3			3	3	1		3		2	2	3 0 1 3 1 3 3 2 3 2 0 3 3 3	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT SBMT LABU LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 2000	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 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirement iives Marketing Research	3 1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 4 3 4 3 4 3 4 4 3 4 4 4 4			3	3	1		3		2	2	3 0 1 3 1 3 3 2 3 2 0 3 3 3 3 0	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Pments ourses and Elect 3220 3420	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 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirement ives Marketing Research Consumer Behavior	3 1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 4 3 4 3 4 4 3 4 4 4 4 4			3	3	1 1 1 3 3		3		2	2	3 0 1 3 1 3 3 2 2 0 3 3 2 0 3 3 3 4 4 4	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 2000	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 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirement iives Marketing Research	3 1 3 1 3 3 2 0 3 3 2 0 3 3 3 3 4 3 4 3 4 4 4 4 4 4			3	3	1 1 1 3 3		3		2	2	3 0 1 3 1 3 3 2 3 2 0 3 3 3 3 0	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Pments ourses and Elect 3220 3420	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 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	3 1 3 1 3 3 2 0 3 3 2 0 3 3 3 3 4 4 3 4 4 3 4 4 4 4 4 4 4 4 1 1 1 1			3	3	1 1 1 3 3		3		2	2	3 0 1 3 1 3 2 3 2 0 3 3 2 0 3 3 4 4 4	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 11013 1020 1023 Pments ourses and Elect 3220 3420 4210 Requiremen	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 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 ts	3 1 3 1 3 3 2 0 3 3 2 0 3 3 3 3 4 4 3 4 4 3 4 4 4 4 4 4 4 4 1 1 1 1			3	3	1 1 1 3 3		3		2	2	3 0 1 3 1 3 2 3 2 0 0 3 3 3 0 0	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ements ourses and Elect 3220 3420 4210 Requirements for Dual Deg	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 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 ts	3 1 3 1 3 3 2 0 3 3 2 0 3 3 3 3 4 4 3 4 4 3 4 4 4 4 4 4 4 4 1 1 1 1			3	3	1 1 1 3 3		3		2	2	3 0 1 3 1 3 2 3 2 0 0 3 3 3 0 0	MARK 2120 is a major pre-requi Waived for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 11 000 to satisfy the requirements of both BEng an
ISOM ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MARK MARK MARK MARK MARK MARK MARK MARK	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ements ourses and Elect 3220 3420 4210 Requirements for Dual Deg	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 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 ts	3 1 3 1 3 3 2 0 3 3 2 0 3 3 3 3 4 4 3 4 4 3 4 4 4 4 4 4 4 4 1 1 1 1			3	3	1 1 1 3 3		3		2	2	3 0 1 3 1 3 2 3 2 0 0 3 3 3 0 0	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1002 1003 1022 1023 2000 2000 200	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 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 IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirement Tives 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 ts Iree Program Technology and Management Professional Activities Case-based Problem Solving	3 1 3 1 3 3 2 0 3 3 2 0 0 3 3 3 4 3 4 3 4 4 4 4 4 4 4 4 4 1) 12 2 4 10 10 10 10 10 10 10 10 10 10 10 10 10	(3)			3	1 1 3 3	4	3 3 3	4	2	2	3 0 1 3 3 1 3 3 2 2 3 3 2 2 0 0 3 3 3 3 0 0 4 4 4 4 12 2 2 4 1 2 2 4 1 2 2 4	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM MARK MARK MGMT MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1023 200 2000 2000 2000 2000	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 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 H Accelerated Calculus H 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 ts ITECHNOlogy and Management Professional Activities	3 1 3 1 3 3 2 0 3 3 2 0 0 3 3 3 4 3 4 3 4 4 4 4 4 4 4 4 4 1) 12 2 4 10 10 10 10 10 10 10 10 10 10 10 10 10	(3)			3	1 1 3 3	4	3 3 3	4	2	2	3 0 1 1 3 1 3 3 2 2 3 3 2 2 0 3 3 3 3 3 4 4 4 4 4 4 12 24	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Pements Ourses and Elect 3220 3420 4210 Requiremen for Dual Deg 1010 3950 RE C3 - C12	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 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 IA 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 ts pree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirement U CORE - Others	3 1 3 1 3 1 3 3 1 3 3 2 0 3 3 2 0 3 3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 9 1) 12 8 24	(3)	0 3		3	1 1 3 3	4	3 3 3	4	2	2	3 0 1 3 3 3 2 2 0 0 3 3 3 3 3 3 0 0 0 3 3 3 3	MARK 2120 is a major pre-requi Waived for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 11 000 to satisfy the requirements of both BEng an
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1023 2ments ourses and Elect 3220 3420 4210 Requirements for Dual Deg	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 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 IA 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 ts ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirement U CORE - Others U CORE - English Language	3 1 1 3 3 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4	(3)	0 3		3	1 1 3 3	4	3 3 3 4 4 0 0	4	4	4	3 0 1 1 3 3 1 3 3 2 2 0 0 3 3 3 3 3 3 3 0 6 6	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Pements Ourses and Elect 3220 3420 4210 Requiremen for Dual Deg 1010 3950 RE C3 - C12	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 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 IA 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 ts pree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirement U CORE - Others	3 1 1 3 3 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4	(3)	0 3	0	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 0 uxcl. free cre	3 3 3 4 4 4 0 0 0 ditts)	4	4	2	3 0 1 3 3 3 2 2 0 0 3 3 3 3 3 3 0 0 0 3 3 3 3	MARK 2120 is a major pre-requision wave for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 101 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 Pements Ourses and Elect 3220 3420 4210 Requiremen for Dual Deg 1010 3950 RE C3 - C12	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 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 IA 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 ts ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirement U CORE - Others U CORE - English Language	3 1 1 3 3 1 1 3 3 3 2 2 3 3 2 2 0 0 3 3 3 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4	(3)	0 3 6 3		3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	3 3 4	4	4	4	3 0 1 1 3 3 1 3 3 2 2 0 0 3 3 3 3 3 3 3 0 6 6	MARK 2120 is a major pre-requis Waived for DDP students DDP students should take MAT 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and

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

 $\ensuremath{\mbox{\#\#}}$ To graduate, students should complete all requirements as specified for DDP.

[^] Courses offered in summer term

⁻⁻⁻ denotes the course/requirement is either waived or substituted

>> 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.

An Example on Student's Pathway **BEMGMT**

Student's Pathway

2020-21 Intake

School of Engineering and School of Business Management Oual Degree Program (BEng in Bioengineering and BBA in Management) ogran Remarks ourse Code Course Title / Courses List BEng in Bioengineering Major Requirements Engineering Fundamental Courses Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029 Introduction to Computer Science Introduction to Computing with Java Python Programming Bridging Course substitute ISOM 2010 1029P ogramming with C++ Academic Orientation
Note: CHEM1010 OR CHEM 1020 НЕМ 3 3 CHEM General Chemistry IB CHEM Laboratory for General Chemistry I ANG 2030 Technical Communication I 3 3 General Biology I 1901 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] (MAI H 1014 OR MAI H 1024)) OR (Calculus IB Calculus II Accelerated Calculus Honors Calculus I Honors Calculus I Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors Caneral Dhusics I PHYS 3 3 3 Honors General Physics I Figure and introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) 3-4 (3) 23-29 Required credits for Engineering Fundamental Courses 22 Major Required Courses and Electives Note: BIEN 1010 OR CENG 1000 3 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering 3 CENG BIEN 2310 Modeling for Chemical and Biological Engineering 3 3 BIEN 2410 Cellular and Systems Physiology for Engineers 3 3 3 BIEN 2610 Chemical Biology for Engineers 3 3 3 BIEN Academic and Professional Development I 1 Transport Phenomena in Biological Systems BIEN 3240 3 3 Data Science for Biology and Medicine Introduction to Bioinstrumentation and Bioimaging BIEN Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 3 3 Bioengineering Industrial Project
Academic and Professional Development II BIEN 4940 Chemical and Biological Engineering Thermodynamics Chemical and Biological Reaction Engineering 3 Note: LIFS 3150 OR MATH 2411 3-4 3 3 3 Applied Statistics Applied Satististics
Technical Communication II for Chemical and Biological Engineering
Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should by taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should be at 4000-level)
Required credits for Major Required Courses and Electives 15 60-61 60 BBA in Management School Requirements Principles of Accounting I ACCT Principles of Accounting II 3 3 Note: ECON 2103 OR ECON 2113 3 3 Note: ECON 2123 OR ECON 3123 3 CON 2123 3 CON 3123 Macroeconomic Theory I Financial Management 2010 3 0 Introduction to Information Systems 1021/1022P/COMP2011 Substituted by COMP SOM 2020 Coding for Business 0 Business Statistics 3 LIFS 3150/MATH 2411 Substituted by SOM Introduction to Business Analytics Operations Management Marketing Management requisite **UGMT** 2130 Business Ethics and Social Responsibility 2 Substituted by ENGG 1010 1111 Business Student Induction Business Case Analyses Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DDP students should take MATH иатн Calculus and Linear Algebra 1012 or MATH 1013 or MATH (3) 1020 or MATH 1023 to satisfy th Calculus IB requirements of both BEng and BBA degrees ccelerated Calculus onors Calculus I Required credits for School Requirements 43-44 34 Major Requirements Major Required Courses and Electives

| Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 the fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)
| Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Management | Human Resources Manag Students in the Consulting Option must take MGMT 3120 **UGMT** lanagerial Leadership ote: MGMT 3130 OR MGMT 3140 Students in the Consulting Option must take MGMT 3140 dgement and Decision Making in Organizations <u>leaoblation</u> lote: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporat Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.) Corporate Strategy 3 иGМТ trepreneurship and Innovation must take MGMT 4210 Students in the Consulting MGMT as Option Required Courses may not be counted towards the elective requirement.) course in Simulating Strategy to fulfill the major elective Required credits for Major Required Courses and Electives 20-21 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management P Case-based Problem Solving Required credits for Additional Requirements University CORE C3 - C12 U CORE - Others U CORE - English Language Sub-total for University CORE 36 Term load (excl. free credits) 18 19 18 16 12 175## Notes:

() indicates the reuse of the same course to fulfill more than one require -- denotes the course/requirement is either waived or substitued

School:

To graduate, students should complete all requirements specified for DDP Remarks on course(s):

BTMGMT 2020-21 Intake

<< Declaration of SEng major SBA major School of Science and School of Business Management ual Degree Program (BSc in Biotechnology and BBA in Management) Remarks Course Code Course Title / Courses List BSc in Biotechnology School Requirements lote: COMP1021 OR COMP1022P OR COMP2011 troduction to Computer Science stroduction to Computing with Java programming with C++ 3-4 Chemistry in Everyday Life Environmental Science 1030 1901[®] 1902[®] 1903 1904 1930 2210 Environmental Science
General Biology I®
General Biology II®
Laboratory for General Biology I
Laboratory for General Biology II
Nature of Life Sciences
Biochemistry I Students are recommended to take CHEM1010, CHEM1030, LIFS1903 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements 10 22 Calculus IA Calculus IB Calculus II Accelerated Calculus Accelerated Calculus I Honors Calculus I Honors Calculus II Multivariable Calculus Linear Algebra Honors in Linear and Abstract Algebra I Physics and the Modern Society
General Physics I
General Physics I with Calculus
Laboratory for General Physics I
General Physics II
Laboratory for General Physics II
Honors General Physics II Required credits for School / Major Pre-requisite Requirements 25-29 28 Major Requirements boratory for General Biology I aboratory for General Biology II ell Biology troduction to Biotechnology 3 3 3060 ficrobiology Plant Biotechnology [3] 0 (3) aboratory for General Chemistry II ote: CHEM 2110 OR CHEM 2311 3 3 нем 2110 2311 1 Biotechnology and Its Business Opportunities Science Communication in English (Life Science) Biotechnology Electives (Courses from the specified elective list; Students following IRE Trac are required to take a minimum of 15 credits; while others a minimum of 18 credits. Courses taken as Major/Track Required Courses may not be counted towards the elective requiremen IFS/BIPH/BTEC/BIEN/ 3 15 ENG Required credits for Major Required Courses and Electives 62-70 BBA in Management School Requirements Principles of Accounting I Principles of Accounting II

Note: ECON 2103 OR ECON 2113

Principles of Microeconomics 3 CON 3 3 ote: ECON 2123 OR ECON 3123 3 inancial Management oding for Business 2600 ntroduction to Business Analytics rations Managemen arketing Management usiness Ethics and the Inc GMT 2110 Organizational Behavior 3 3 3 MGMT 2110 is a major pre-requisit Business Ethics and Social Responsibility MGMT 2130 Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 102: Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus (3) Honors Calculus I Required credits for School Requirements 43-44 Major Requirements Students in the Consulting Option must take MGMT 3120 Managerial Leadership

Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGM 3140 to fulfill this requirement.) Students in the Consulting Option must take MGMT 3140 3140 to fulfill this requirement.)
Judgement and Decision Making in Organizations 4 MGMT Students in the Consulting Option must take MGMT 4210 Students in the Consultin Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective MGMT 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.) Required credits for Major Required Courses and Electives 20-21 Additional Requirements Requirements for Dual Degree Program Required Courses Required credits for Additional Requirements University CORE U CORE - English Language Sub-total for University CORE 36

17 17 20 19 19 20 20 18 18 14 << Declaration of BEng major

Notes:

() indicates the reuse of the same course to fulfill more than one requirement. denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP

School of Engineering and School of Business Management

CEMGMT 2020-21 Intake

<< Declaration of

BEng major

BBA major

Dual Degree Program (BEng in Chemical Engineering and BBA in Management) rogram: Remarks Course Title / Courses List Offering Dept Course Code BEng in Chemical Engineering Major Requirements Engineering Fundamental C Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ ENGG Note: CHEM1010 OR CHEM1020 3 1010 3 CHEM CHEM General Chemistry IB Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IB Calculus II 4-7 1012 1013 1014 1020 1023 1024 3 3 Ionors Calculus I Innors Calculus II MATH Introduction to Multivariable Calculus MATH 3 3 Required credits for Engineering Fundamental Courses 19-23 21 Major Required Courses and Electives Note: CENG1000 OR CENG1500 Introduction to Chemical and Biological Engineering A First Course on Materials Science and Applications Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities Introduction to Environmental Engineering Introduction to Biomedical Engineering CENG 1600 3 CENG 1700 1010 Academic and Professional Development CENG 1980 Industrial Training 0 0 CENG 2110 Process and Product Design Principles 3 3 3 Chemical and Biological Engineering Thermodynamic CENG Process Fluid Mechanics 3 Modeling for Chemical and Biological Engineering CENG 2310 3 3 CENG 3150 Integrated Chemical Process & Product Design 5 5 CENG 3 3 3210 3 Chemical and Biological Reaction Engineering Chemical and Environment Engineering Laborator CENG CENG Note: CENG4920 OR CENG4930 OR CENG4940 CENG Chemical Engineering Capstone Design 3 CENG CENG 4930 Chemical Engineering Thesis Research Chemical Engineering Industrial Project Engineering Seminar Series CHEM 1050 Laboratory for General Chemistry I CHEM 2111 Fundamentals of Organic Chemistry 3 3 Fundamental Organic Chemistry Laboratory LANG Technical Communication II for Chemical and Biological Engineering 3 3 Note: BIEN2410 OR BIEN2610 OR LIFS1901 BIEN 2410 Cellular and Systems Physiology for Engineers 3 2610 Chemical Biology for Engineers eneral Biology I 12 12 Required credits for Major Requirements Courses and Electives **BBA** in Management School Requirements Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 3 3 3 ECON 2103 Principles of Microeconomics **ECON** 2113 3 3 Financial Management FINA 2303 3 ISOM 2010 Introduction to Information Systems 3 0 Coding for Busines ISOM ISOM 2500 Business Statistics 3 3 ISOM 2600 Introduction to Business Analytics 1 1 Operations Management 3 MARK 2120 Marketing Management 3 MGMT 2 2 Business Ethics and the Individual MGMT 2110 is a major pre-MGMT 3 3 2110 Organizational Behavior 3 MGMT 2130 Business Ethics and Social Responsibility 2 SBMT Waived for DDP students 1111 0 Business Student Induction Business Case Analyses LABU Effective Communication in Business Entective Communication in Business
Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MAT
Calculus and Linear Algebra
Calculus IA
Calculus IB
Accelerated Calculus B 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 (3) Required credits for School Requirements 45-46 39 Major Requirements Major Required Courses and Electives 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 requirement.)
Human Resources Management Managerial Leadership Students in the Consulting Option must take MGMT 3120 Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT Judgement and Decision Making in Organizations lote: 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 its requirement.) MGMT 3140 Students in the Consulting Option must take MGMT 4210 Students in the CSR Option 3 4210 Students in the Consulting Option are recommended to take MGMT 4220 and a new MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specific иGМТ ourses taken as Option Required Courses may not be counted towards the elective course in Simulating Strategy to fulfill the major elective Required credits for Major Required Courses and Electives 20 **Additional Requirements** Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities TEMG Case-based Problem Solving Required credits for Additional Requirements University CORE U CORE - Others U CORE - English Language Sub-total for University CORE 36 36 19 20 20 << Declaration of << Declaration of

() indicates the reuse of the same course to fulfill more than one requirement

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

To graduate, students should complete all requirements as specified for DDP.

[^] Courses offered in summer term

⁻⁻⁻ denotes the course/requirement is either waived or substituted

<< Declaration of

CIMGMT 2020-21 Intake

BEng major BBA major School of Engineering and School of Business Management rogram: Dual Degree Program (BEng in Civil Engineering and BBA in Management) Remarks Course Title / Courses List ourse code prefix) **BEng in Civil Engineering** Major Requirements Engineering Fundamental Cou ote: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java This course will also be used to substitute ISOM 2010 Programming with C++ Note: CHEM 1010 OR CHEM 1020 3 3 CHEM General Chemistry IA Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 4-7 MATH MATH MATH MATH 1012 Calculus IA Calculus IB 1013 1014 1020 3 3 Calculus II Accelerated Calculus MATH 1023 Honors Calculus I MATH 1024 Honors Calculus II Introduction to Multivariable Calculus MATH 2011 3 3 3 Applied Linear Algebra and Differential Equations 3 Note: PHYS 1112 OR PHYS 1312 1112 PHYS General Physics I with Calculus Honors General Physics I 3 3 Required credits for Engineering Fundamental Courses 22-26 24 Major Required Courses and Elective CIVL 1100 Discovering Civil and Environmental Engineering 3 3 CIVL Industrial and BIM Training 0 0 2110 3 3 Mechanics of Materials 3 This course will also be used to 3 2160 3 3 CIVL Modeling Systems with Uncertainties substitute ISOM 2500 CIVL 2170 Infrastructure Systems Engineering and Management 3 3 2410 Environmental Assessment and Management 3 3 2810 Construction Materials 3 3010 Academic Professional Development III 0 0 0 Internship Training Introduction to Construction Management 3 3 Structural Analysis 3 3 Reinforced Concrete Design Hydrosystems Engineering Traffic and Transportation Engineering Fundamentals of Geotechnics 3 3 Geotechnical Analysis and Design CIVL 3740 3 3 Note: CIVL 4910 OR CIVL 4920
Civil and Environmental Engineering Final Year Project
Civil and Environmental Engineering Final Year Thesis Civil Engineering Capstone Design Project 3 Engineering Seminar Series 0 0 Technical Communication II for Civil and Environmental Engine LANG CIVL Electives (3 courses from the specified elective list)
CIVL: Any CIVL courses at 4000-level or above except CIVL 4230 9 3 9 CIVL/SENG 3 3 SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL Required credits for Major Requirements Courses and Electives 66 66 **BBA** in Management School Requirements Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics 3 Note: ECON 2123 OR ECON 3123 Macroeconomics 3 3 3 2123 ECON Macroeconomic Theory I **ECON** 3123 Financial Management 3 ISOM Introduction to Information Systems 3 0 Substituted by COMP 1021/1022P ISOM Coding for Business ISOM 2500 Business Statistics ISOM Introduction to Business Analytics Operations Management Marketing Management MARK 120 3 MGMT 2010 Business Ethics and the Individual 2 2 2 MGMT 2110 is a major pre-MGMT 2110 Organizational Behavior 3 3 3 MGMT 2130 Business Ethics and Social 2 SBMT 1111 Business Student Induction 0 0 Waived for DDP students LABU 2060 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 MATH 1003 Calculus and Linear Algebra 1012 or MATH 1013 or MATH 1020 MATH MATH MATH MATH 1012 1013 Calculus IA (3) or MATH 1023 to satisfy the Calculus IB requirements of both BEng and BBA degrees Honors Calculus I Required credits for School Requirements 43-44 **Major Requirements** Major Required Courses and Electives 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 Students in the Consulting requirement.) Human Resources Management Option must take MGMT 3120 3110 MGMT Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MG 3140 to fulfill this requirement.) อาษุบ to fulfill this requirement.) Judgement and Decision Making in Organizations Negotiation Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the 3-4 Students in the Consulting Option must take MGMT 4210 Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill Students in the CSR Option 4210 MGMT Corporate Strategy must take MGMT 4210 MGMT Entrepreneurship and Innovation Students in the Consulting Option are recommended to take MGMT 4220 and a new MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specific Courses taken as Option Required Courses may not be counted towards the elective иGМТ course in Simulating Strategy to fulfill the major elective requirement Required credits for Major Required Courses and Electives 20 **Additional Requirements** Requirements for Dual Degree Program Required Courses TEMG Required credits for Additional Requirements **University CORE** U CORE - English Language Sub-total for University CORE 36 20 18 20 19 19 18 20 18 << Declaration of BEng major BBA major

() indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

* 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 ion on course offering and scheduling, students should check it out from respective School and Departme

<< Declaration of BEng major BBA major

COMGMT 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management		1		BEng ma	ajor	BBA maj	or	Student's	s Pathway				
Program:		Dual Degree Program (BEng in Computer Science and BBA in Management)							Student	s i auiway				
			, 			:		:							-
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	ear 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	ear 4 Spring	Year 5 Fall	ear 5 Spring	Sub-total	Remarks
BEng in Co	mputer Scie	ence			<u>u</u>	<u> </u>	ų	i	ш		g		ų		
Major Require															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3		<u> </u>		İ						3	This course will also be used to
COMP ENGG	1022P 1010	Introduction to Computing with Java Academic Orientation	3	0	0	<u> </u> 		<u>I</u> i						0	substitute ISOM 2010
ouen.		Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312				<u> </u>		į							
CHEM CHEM CHEM	1004 1010 1020	Chemistry in Everyday Life General Chemistry IA General Chemistry IB	3 3 3	3		İ		İ						3	
LIFS PHYS PHYS	1901 1001 1112	General Biology I Physics and the Modern Society General Physics I with Calculus	3 3 3			<u>!</u>		ļ							
PHYS LANG	1312	Honors General Physics I Technical Communication I	3			<u> </u>		3						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			i		i							
MATH MATH MATH	1012 1013 1014	Calculus IA Calculus IB Calculus II	4 3 3	3	3	<u> </u>		į						6	
MATH MATH MATH	1020 1023 1024	Accelerated Calculus Honors Calculus I Honors Calculus II	4 3 3			! !		I I							
MATH	2111	Matrix Algebra and Applications Engineering Introduction course (COMP students may also use COMP1022P or	3			3		ļ						3	
SENG		COMP1022Q to fulfill this requirement) Required credits for Engineering Fundamental Courses	3-4 19-23	(3)		<u>!</u>		<u>!</u> !						18	
Major Required C	ourses and Electi		5-8	<u> </u>	1						I				
COMP COMP COMP	2011 2012 2012H	Programming with C++ Object-Oriented Programming and Data Structures Honors Object-Oriented Programming and Data Structures	4 4 5			4	4] ;						8	
COMP	2611	Computer Organization	4			<u>: </u>		<u> </u>	4					4	
COMP	2711 2711H	Note: COMP2711 OR COMP2711H Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Science	4 4			4		<u>i</u>		L	L	L	L	4	
СОМР	3111	Note: COMP3111 OR COMP3111H Software Engineering	4			. İ		4						4	
COMP	3111H 3511	Honors Software Engineering Operating Systems	3			!		<u>:</u>		3				3	
COMP COMP	3711 3711H	Note: COMP3711 OR COMP3711H Design and Analysis of Algorithms Honors Design and Analysis of Algorithms	3-4 3 4			! !		3						3	
		Note: Students are required to take COMP4900 for every regular term in which they are in residency at HKUST with major in COMP				0	0	0	0	0	0	0	0	0	
COMP	4900	Academic and Professional Development Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910	6			<u> </u> 		<u> </u>							
COMP COMP COMP	1991 4981 4981H	Industrial Experience Final Year Project Final Year Thesis	0 6 6			į		į				3	3	6	
COMP	4910	Co-op FYP Program Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431	6 3-4			<u> </u>		<u> </u>				-			
ELEC IEDA IEDA	2600 2520 2540	Probability and Random Processes in Engineering Probability for Engineers Statistics for Engineers	4 3 3			4		İ						4	Students should take MATH 241 which will also be used to substitu
MATH MATH	2411 2421	Applied Statistics Probability	4			<u> </u>		į							ISOM 2500.
MATH ENGG	2431 2010	Honors Probability Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Technical Communication II for CSE & CPEG COMP Electives (5 courses from the specified elective list, of which at least 3 courses should be taken from 1 area and at least 2 courses outside that area.)	3 15			<u> </u>		İ		3	6	3	3	3 15	
COMP	D-	COMP Elective (Any 1 course offered under COMP)	3 53-58			<u> </u>		<u> </u>					3	3 57	
BBA in Man	agement	equired credits for Major Requirements Courses and Electives	33-36	1							1			37	<u>l</u>
School Requi	rements 2010	Principles of Accounting I	3	I	3	ī		ī			1	1		3	
ACCT	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3			:		i	3					3	
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3 3			į	3	<u> </u>						3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3			! !		3						3	
FINA ISOM	2303 2010	Financial Management Introduction to Information Systems	3			<u> </u>	3	<u> </u>				_		3	Substituted by COMP 1021/1022
ISOM ISOM	2020 2500	Coding for Business Business Statistics	1 3			<u></u>		1						1 0	Substituted by MATH 2411
ISOM ISOM	2600 2700	Introduction to Business Analytics Operations Management	1 3				1	į	3					1 3	Substituted by WATT 2411
MARK MGMT	2120 2010	Operations waragement Business Ethics and the Individual	3 2		3	! 	2	!	3					3 2	
MGMT	2110	Organizational Behavior	3			3	2	<u> </u>						3	MGMT 2110 is a major pre- requisite
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	0					<u> </u>	_	2		_		2	Waived for DDP students
LABU LABU	2040 2060	Business Case Analyses Effective Communication in Business	3			i	3	İ	3					3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4 3			į		į							DDP students should take MATH 1012 or MATH 1013 or MATH 10
MATH MATH MATH	1012 1013 1020	Calculus IA Catculus IB Accelerated Calculus	4 3 4	(3)		! !		1 i						0	or MATH 1023 to satisfy the requirements of both BEng and
MATH	1023	Honors Calculus I Required credits for School Requirements	3	1		<u> </u>		<u>i</u>				<u> </u>		36	BBA degrees
Major Required C	ements courses and Electi	·		_		_						_			
,	4.14 210011	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			į		į							Chudanta is 45 - O
MGMT MGMT	3110 3120	requirement.) Human Resources Management Managerial Leadership	4			: !		1 i	4					4	Students in the Consulting Option must take MGMT 3120
		wanagenar Leadership Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4			<u>. </u>		<u>.</u>							Students in the Consulting
MGMT MGMT	3130 3140	3140 to fulfill this requirement.) Judgement and Decision Making in Organizations Negotiation	4 4			<u>i</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 this	3-4			İ		į							Students in the Consulting Option must take MGMT 4210
MGMT MGMT	4210 4220	requirement.) Corporate Strategy Entrepreneurship and Innovation	3 4			į		į		3				3	Students in the CSR Option must take MGMT 4210
		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified.				<u>!</u>		i							Students in the Consulting Option are recommended to
MGMT		Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9			!		İ		3	3	3		9	take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective
	<u>[</u>	Required credits for Major Required Courses and Electives	20-21			<u> </u>		<u>!</u>						20	requirement
	Requirement							_							
Required Courses			T	T	1				1	1	T	1	1	1	
TEMG TEMG	1010 3950	Technology and Management Professional Activities Case-based Problem Solving	3	0	3	0	0	0	0	0	0	0	0	3	
University CC		Required credits for Additional Requirements	3		<u> </u>	I		<u> </u>	l	l	l	L	l	3	1
CORE CORE	C3 - C12 C1 & C2	U CORE - Others U CORE - English Language	30 6	6	3	: 	3			3	9	3	3	30 6	
		Sub-total for University CORE	36				Т	erm load (ex	cl. free cred	its)				36	
				18	18	18	19	18 17	17 0##	17	18	15	12		
Notes:				-		<< Decla BEng ma		<< Declar	ration of					ı	
() indicates the reuse	of the same course to	o fulfill more than one requirement.					-								

() indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

--- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

CPMGMT 2020-21 Intake

School of Engineering and School of Business Management Student's Pathwa rogram: Dual Degree Program (BEng in Computer Engineering and BBA in Management) Remarks Sub-total ffering Dept Course Code Course Title / Courses List course code prefix) BEng in Computer Engineering **Major Requirements** ote: COMP1021 OR COMP1022F This course will also be used to sub ISOM 2010 3 troduction to Computer Science troduction to Computing with Jav ENGG Academic Orientation Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] ANG 4-7 Calculus IA Calculus IB 3 6 accelerated Calculus Ionors Calculus I Ionors Calculus II MATH 2011 Introduction to Multivariable Calculus 3 3 3 Note: PHYS1112 OR PHYS1312 3 PHYS 3 1112 3 eneral Physics I with Calculus onors General Physics I Note: PHYS1114 OR PHYS1314 General Physics II 3 PHYS 3 PHYS lonors General Physics II Engineering Introduction course (If the students take an introduction course included in their SENG 3-4 (3) 0 ajor, this course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 25-29 Major Required Courses and Electives 2930 Academic and Professional Development I 5-8 4 4 5 Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++ OMP 8 COMP bject-Oriented Programming and Data Structures onors Object-Oriented Programming and Data Structures Note: COMP2611 OR ELEC2350 4 4 4 OMP omputer Organization troduction to Computer Organization and Design Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Science Probability and Random Processes in Engineering OMP OMP LEC COMP 3511 Operating Systems 3 3 Operating Systems

Note: COMP4611 OR ELEC 4310

Mobile Application Development

Design and Analysis of Computer Architectures

Embedded System Design

FPGA-based Design: From Theory to Practice

Mobile Embedded Systems: Hardware Platform, Software Deve OMP OMP LEC 3 Mobile Embedded Systems: Hardware Platform, Software Development, and Applications
Note: (ICDFE64901 OR CPE64902) AND CPEG1971] OR (ICPEG4911 OR CPE6
AND CPEG1971] OR CPEG4910
Industrial Experience
Computer Engineering Final Year Project in COMP
Computer Engineering Final Year Thesis in COMP
Computer Engineering Final Year Project in ELEC
Computer Engineering Final Year Project in ELEC
Computer Engineering Final Year Project in ELEC
Computer Engineering Final Year Project in ELEC
Computer Engineering Final Year Thesis in ELEC
Co-op Program Final Year Thesis in ELEC PEG PEG PEG PEG PEG 1971 4901 4902 4911 4912 6 CPEG Introduction to Electro-Robot Design ELEC 4 4 4 Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets ELEC 8 LEC Signals and Systems lectronic Circuits Introduction to Embedded Systems NGG Engineering Seminar Series Note: LANG4030 OR LANG4031
Fechnical Communication II for CSE & CPEG
Fechnical Communication II for ECE & CPEG 3 Area Courses (At least 4 courses from the specified elective list , of which at least 2 cours COMP/ELEC 15 15 hould be taken from one single area and at least 2 courses outside that area. Courses aken as Major Required Courses may not be counted towards the elective requirement.) Required credits for Major Requirements Courses and Electives 59-63 **BBA** in Management School Requirements Principles of Accounting I 3 3 Principles of Accounting II Note: ECON 2103 OR ECON 2113 3 CON inciples of Microeconomics 3 2113 Note: ECON 2123 OR ECON 3123 CON 3 3 2123 CON 3123 Macroeconomic Theory I 2303 Financial Management SOM Introduction to Information Systems 0 Substituted by COMP 1021/1022P oding for Business SOM Susiness Statistics ISOM 2600 Introduction to Business Analytics 1 Operations Management MARK MGMT Marketing Management 2 Business Ethics and the Individual 2 Organizational Behavior /GMT MGMT 2130 Business Ethics and Social Responsibility 2 1111 Waived for DDP students ABU Business Case Analyses ABU Effective Communication in Business 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB IATH or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of bot BEng and BBA degrees (3) 0 ccelerated Calculus onors Calculus I Required credits for School Requirements 43-44 39 Major Requirements Major Required Courses and 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 Students in the Consulting Option must take MGMT 3120 IGMT anagerial Leadership ote: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT Students in the Consulting 4 4 dgement and Decision Making in Organizations MGMT lote: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corpora ocial Responsibility and Sustainability Option must take MGMT 4210 to fulfill this equirement.) corporate Strategy Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210 Option are recommended take MGMT 4220 and a ne MGMT 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 MGMT 9 course in Simulating Strategy to fulfill the major elective equirement.) Required credits for Major Required Courses and Electives 20-21 20 **Additional Requirements** Requirements for Dual Degree Program Technology and Management Professional Activities Required credits for Additional Requirements University CORE U CORE - English Language Sub-total for University CORE 36 17 20 20 18 19 19 19 19

Notes:

() indicates the reuse of the same course to fulfill more than one requirement. [] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office

-- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP

<< Declaration of | << Declaration of

BBA major

BEng major

<< Declaration of BEng major BBA major



School of Engineering and School of Business Management Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in Management) Remarks Course Title / Courses List BEng in Civil and Environmental Engineering Major Requirements Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ 3 3 3 3 6 Calculus II
Accelerated Calculus
Honors Calculus I
Honors Calculus I
Introduction to Multivariable Calculus
Applied Linear Algebra and Differential Equation
Note: PHYS 1112 OR PHYS 132
General Physics I with Calculus
Lances Canara Physics I 3 3 Required credits for Engineering Fundamental Courses Major Required Courses and Discovering Civil and Environmental Engineering
Academic Professional Development II
Industrial and BIM Training 1100 0* 2110 chanics of Materials Modeling Systems with Uncertainties astructure Systems Engineering and Management Environmental Assessment and Management Construction Materials Academic Professional Development III 0^ 3 3 3 Traffic and Transportation Engineering Reinforced Concrete Design Water and Wastewater Engineering Note: CIVL 4910 OR CIVL 4920 3 3 6 3 3 andfill Engineering and Design 0 chnical Communication II for Civil and Environmental Engineering CIVL/SENG 3 6 Required credits for Major Requirements Courses and Electives BBA in Management School Requirements Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 3 3 rinciples of Microeconomics flicroeconomics lote: ECON 2123 OR ECON 3123 3 3 3 Financial Management 2010 troduction to Information Systems 3 0 ISOM Coding for Business Susiness Statistics ntroduction to Business Analytics Operations Management 2110 ganizational Behavior 3 3 3 MGMT 2110 is a major pre-requisit Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Vote: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Zalculus and Linear Algebra Calculus IA DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BB/ degrees 3-4 3 4 (3) 0 Required credits for School Requirements 43-44 Major Requirements 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 equirement.) uman Resources Management MGMT Managerial Leadership : MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGM 8140 to fulfill this requirement.) Judgement and Decision Making in Organizations 4 4 MGMT MGMT Negotiation

Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corpo

Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this Students in the Consulting Option must take MGMT 4210 3 Students in the Consultino MGMT 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 take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective Additional Requirements Requirements for Dual Degree Program Required credits for Additional Requirements University CORE Sub-total for University CORE << Declaration of
BEng major</pre>
<< Declaration of
BBA major</pre>

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office * Courses offered in winter term

-- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP

[^] Courses offered in summer term

>> 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.

DAMGMT

30

2020-21 Intake

An Example on Student's Pathway School: School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Decision Analytics and BBA in Management) rogram Remarks ourse Code Course Title / Courses List BEng in Decision Analytics Major Requirements Engineering Fundamental Courses Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ substitute ISOM 2010 2011 NGG 1010 0 Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA General Chemistry IB General Physics I with Calculus 1112 PHYS Honors General Physics I ANG Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 3 2011 Matrix Algebra and Applications Engineering Introduction course (If the students take an introduction course included in their major, this 3-4 (3) 0 SENG course can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses Major Required Courses and Electives Academic and Professional Development I Academic and Professional Deve Note: IEDA1990 OR IEDA1991 0 0 0 0 0 0 0 0 0 1990 1991 0 Industrial Experience IEDA 2520 Probaility for Engineers IEDA 3 Statistics for Engineers EDA 3 3 substitute ISOM2500 IEDA 3010 Prescriptive Analytics 3 3 IEDA 3230 Engineering Economics and Accounting 3 3 3 IEDA 3250 Stochastic Models 3 3 3 IEDA 3300 Industrial Data Systems 3 3 3 EDA 3560 Predictive Analytics Note: IEDA4901 OR IEDA4920 Final Year Thesis Decision Analytics Final Year Project 6 NGG Engineering Seminar Series ote: ECON2103 OR ECON2113 3 3 Technical Communication II for Industrial Engineering and Decision Analytic rea Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the EDA 15 3 6 3 3 15 Required credits for Major Required Courses and Electives 48 48 BBA in Management School Requirements 3 3 3 ACCT 2200 Principles of Accounting II 3 3 Note: ECON 2103 OR ECON 2113 (3) 0 CON 2113 Note: ECON 2123 OR ECON 3123 3 2123 3 Substituted by COMP 1021/1022P/2011 troduction to Information Systems 0 Coding for Business ISOM 2020 Substituted by IEDA2540 Introduction to Business Analytics MOS 2700 Operations Management Marketing Management MGMT Business Ethics and the Individual MGMT 2110 is a major pre-MGMT 2110 Organizational Behavior 3 MGMT 2130 Business Ethics and Social Responsibility 1111 Business Student Induction 0 0 Waived for DDP students LABU 2040 Business Case Analyses 3 LABU 2060 Effective Communication in Busin Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 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 3-4 (3) nors Calculus I Required credits for School Requirements 43-44 Major Requirements Note: MGMT 3110 CR 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 requirement.) Human Resources Management Managerial Leadership Major Required Courses and Electives Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill the 4 quirement.) idgement and Decision Making in Organizations Students in the Consulting Option must take MGMT 4210 Students in the CSR Option <u>Processors</u>
<u>Interview of the Computation of the Computation of the Corporate Society of the Computation of the Corporate Society of the Computation of the Corporate Society of the Computation</u> 3-4 3 Students in the CSR Option must take MGMT 4210 Students in the Consulting Option are recommended to take MGMT 4220 and a new MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taker **IGMT** 3 9 as Option Required Courses may not be counted towards the elective requirement.) course in Simulating Strategy to fulfill the major elective Required credits for Major Required Courses and Electives 20-21 20 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements

() indicates the reuse of the same course to fulfill more than one requirement

U CORE - Others

U CORE - English Language

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office

Sub-total for University CORE

--- denotes the course/requirement is either waived or substitued ## To graduate, students should complete all requirements specified for DDP

Remarks on course(s):

University CORE C3 - C12

19 161##

<< Declaration of BBA

<< Declaration of BEng

>> 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

An Example on Student's Pathway

EEMGMT 2020-21 Intake
(Via DDP PBA)

School of Engineering and School of Business Management School Student's Pathway rogram: Dual Degree Program (BEng in Electronic Engineering and BBA in Management) Year 3 Fall Remarks Course Title / Courses List Offering Dept. Course Code course code prefix) BEng in Electronic Engineering Major Requirements Engineering Fundamental Courses Note: ELEC2600 OR ELEC2600H) OR MATH2011 OR MATH2111 OR MATH2350 OF MATH 2351 (3 courses out of 6)
Probability and Random Processes in Engineering ELEC 2600 Probability and Kandom Processes in Engineering Honors Probability and Random Processes in Engin Introduction to Multivariable Calculus Matrix Algebra and Applications Applied Linear Algebra and Differential Equations Introduction to Differential Equations 3 3 Note: COMP1021 OR COMP1022P Introduction to Computer Science Introduction to Computing with Java This course will also be used to substitute ISOM 2010 1021 1022F 3 COMP Programming with C++ Academic Orientation ENGG 1010 0 0 0 0 LANG 030 Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA 4-7 1012 Note: PHYS1112 OR PHYS1312 General Physics I with Calculus Honors General Physics I 112 |312 3 3 Note: PHYS1114 OR PHYS1314 1114 1314 3 3 Engineering Introduction course (If the students take an introduction course included in the major, this course can be counted towards their major requirement.) 0 SENG (3) Required credits for Engineering Fundamental Courses 32-37 31 Major Required Courses and Electives ELEC 1100 Introduction to Electro-Robot Design 4 4 ELEC 200 A System View of Communications: from Signals to Packets 4 4 Note: ELEC2100 OR ELEC2100H 100 4 4 onors Signals and Systems Introduction to Computer Organization and Design ELEC 2350 4 2400 Academic and Professional Development I 0 0 ELEC 3910 Academic and Professional Development II 0 0 0 Note: (ELEC4900 AND ELEC2991) OR (ELEC4901 AND ELEC2991) OR ELEC4910 Students taking the Research Option must take ELEC 4901) 4900 4901 2991 Final Year Design Project 3 ELEC Final Year Thesis ndustrial Experience (Electronic Engineering) ELEC 4910 o-op Program Engineering Seminar Series ENGG 2010 0 0 0 0 1031 LANG ELEC 3000-level or 4000-level Electives (Any 2 courses ELEC 4000-levek courses ELEC4940 cannot be used to count towards this elective requirement) ELEC 21 3 3 6 3 6 21 Required credits for Major Requirements Courses and Electives 50 50 **BBA in Management** School Requirements Principles of Accounting I Principles of Accounting II Note: ECON2103 OR ECON2113
Principles of Microeconomics
Microeconomics 2103 2113 3 3 Note: ECON2123 OR ECON3123 2123 3 3 3 lacroeconomic Theory I FINA 2303 Financial Management 3 ISOM 010 Introduction to Information Systems Substituted by COMP 1021/1022F 1 ISOM 2020 Coding for Business ISOM 2500 Business Statistics 3 3 Introduction to Business Analytics ISOM 700 Operations Management 3 3 3 MARK Marketing Management 3 3 MGMT 2010 Business Ethics and the Individua 2 MGMT 2110 is a major pre MGMT 2110 Organizational Behavior 3 3 3 MGMT 130 Business Ethics and Social Responsibility SBMT 1111 Business Student Induction 0 0 Waived for DDP students Business Case Analyses 3 Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 3 4 DDP students should take MATH Calculus and Linear Algebra MATH 1003 (3) 012 or MATH 1013 or MATH 102 1012 1013 1020 MATH Calculus IA or MATH 1023 to satisfy the Calculus IB requirements of both BEng and nors Calculus I Required credits for School Requirements 43-44 39 Major Requirements Major Requir 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 Students in the Consulting Option must take MGMT 3120 Human Resources Management MGMT 3110 MGMT 3120 Managerial Leadership Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT Students in the Consulting Option must take MGMT 3140 udgement and Decision Making in Organizations 3130 MGMT 3140 Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corpora Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this Students in the Consulting Option must take MGMT 4210 3 Students in the CSR Option Corporate Strategy MGMT 4210 must take MGMT 4210 MGMT 4220 and Innovation Students in the Consulting Option are recommended to take MGMT 4220 and a new IGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified 3 3 3 MGMT Courses taken as Option Required Courses may not be counted towards the elective course in Simulating Strategy to fulfill the major elective requirement Required credits for Major Required Courses and Electives 20 Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activity TEMG 3950 Case-based Problem Solving Required credits for Additional Requirements **University CORE** U CORE - Others 30 U CORE - English Language 6 Sub-total for University CORE 36 18 18 19 20 18 15 20 20 19 12 179## << Declaration of << Declaration of Notes BEng major BBA major

() indicates the reuse of the same course to fulfill more than one requirement.

⁽⁾ indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office

⁻⁻⁻ denotes the course/requirement is either waived or substituted ## To graduate, students should complete all requirements as specified for DDP.

>> 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.

The Hong Kong University of Science and Technology IEMGMT 2020-21 Intake **Interdisciplinary Programs Office** An Example on Student's Pathway << Declaration of << Declaration of BEng major BBA major School: School of Engineering and School of Business Management Student's Pathway oual Degree Program (BEng in Industrial Engineering and Engineering rogram Management and BBA in Management) Offering Dept.
Course code prefix) Course Code Course Title / Courses List BEng in Industrial Engineering and Engineering Management Major Requirements **Engineering Fundamental Courses** ote: COMP1021 OR COMP1022P OR COMP2011 3 troduction to Computer Science This course will also be used to substitute ISOM 2010 3 COMP COMP troduction to Computing with Java rogramming with C++ Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 1010 CHEM General Chemistry IB 1112 General Physics I with Calculus PHYS lonors General Physics I LANG 2030 Technical Communication I 3 Technical Communication I
Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND
(MATH 1014 OR MATH 1024)] OR [MATH 1020]
Calculus IA
Calculus IB
Calculus II
Accelerated Calculus
Honors Calculus I
Honors Calculus II 4-7 MATH ntroduction to Multivariable Calculus MATH Matrix Algebra and Applications 3 3 Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) 3-4 0 SENG (3) Required credits for Engineering Fundamental Courses Major Required Courses and Electives IEDA 1010 Academic and Professional Development I 0 IEDA 1020 Academic and Professional Development II 0 0 0 ote: IEDA1990 OR IEDA1991 0 0 0* 0^ IEDA 2520 Probability for Engineers 3 3 This course will also be used to IEDA 2540 Statistics for Engineers 3 3 3 substitute ISOM2500 IEDA 3010 Presciptive Analytics 3 IEDA 3230 Engineering Economics and Accounting 3 IEDA Industrial Data Systems 3 This course will also be used to ntegrated Production Systems 3 3 IEDA 4130 System Simulation 3 3 3 ndustrial Engineering and Engineering Management Final Year Project Engineering Seminar Series Note: ECON 2103 OR ECON 2113 ECON 2103 Principles of Microecono 3 3 3 2113 4032 3 Technical Communication II for Industrial Engineering and Decision Analytics LANG 3 ndustrial Engineering Electives (Courses from the specified 21 elective list, of which at least 15 credits should be taken from 1 21 3 IEDA 6 3 3 6 21 Required credits for Major Requirements Courses and Electives 57 **BBA** in Management **School Requirements** Principles of Accounting I Principles of Accounting II Note: ECON 2103 OR ECON 2113 Principles of Microeconomics ote: ECON 2123 OR ECON 3123 ECON 3 3 3 Financial Management ISOM Introduction to Information Systems Substituted by COMP 1021/1022F ISOM 2020 Coding for Business 2500 3 0 ISOM 2600 Introduction to Business Analytics 1 ISOM Operations Management Substituted by IEDA 4100 Marketing Management MARK 2120 3 MGMT 2010 Business Ethics and the Individual MGMT 2110 is a major p rganizational Behavior MGMT 2110 3 3 Business Ethics and Social Responsibility Business Student Induction SBMT 1111 0 0 Waived for DDP students LABU 2040 Business Case Analyses 3 3 LABU ote: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 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 MATH MATH MATH MATH (3) Accelerated Calculus Honors Calculus I Required credits for School Requirements 43-44 Major Requirements Major Required Courses and Electives 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 Students in the Consulting Option must take MGMT 3120 3110 3120 luman Resources Management MGMT Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.) Judgement and Decision Making in Organizations Students in the Consulting Option must take MGMT 3140 3130 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 his requirement.)
Corporate Strategy MGMT Students in the Consulting Option are recommended to take MGMT 4220 and a new MGMT 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 MGMT 3 course in Simulating Strategy elective requirement.) to fulfill the major elective Required credits for Major Required Courses and Electives **Additional Requirements**

Requirements for Dual Degree Program 1010 TEMG 3950 Case-based Problem Solving Required credits for Additional Requirements **University CORE** C1 & C2 U CORE - English Language

<< Declaration of | << Declaration of

BEng major

18 18

BBA major

18

14

36

Notes () indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

^ 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):

Sub-total for University CORE

>> 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-dat information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

MEMGMT 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management		II		BEng ma		<< Decla BBA maj		Studen	t's Pathway	,			
rogram:		Dual Degree Program (BEng in Mechanical Engineering and BBA in Mana	agement)							Olddell	to r diliway				
ourse ffering Dept. ourse 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 Me	chanical Er	ngineering			-		-								
ajor Require	ements damental Course	c c													
OMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science	3-4 3			:		:							This course will also be us
OMP OMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4	3		<u>!</u> !		<u>:</u>						3	substitute ISOM 2010
NGG NG	1010 2030	Academic Orientation Technical Communication I	0	0	0	<u>i</u>	3	<u>i</u>						0	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			!		!							
ATH ATH	1012 1013	Calculus IA Calculus IB	4 3	3	3	į		į						6	
ATH ATH ATH	1014 1020 1023	Calculus II Accelerated Calculus Honors Calculus I	3 4 3			! :		! :							
ATH ATH	1024	Honors Calculus II Introduction to Multivariable Calculus	3			<u> </u>		3						3	
ATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications	3]		<u> </u>		3					
ATH ATH	2350 2351	Applied Linear Algebra and Differential Equations Introduction to Differential Equations	3			<u>!</u>		<u>:</u>		3				3	
iys iys	1112 1312	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3		3	į		į						3	
HEM/LIFS/ PHYS	1312	Honors General Physics I Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)	<u>!</u>		<u> </u>						0	
ajor Required 0	Courses and Elec	Required credits for Engineering Fundamental Course tives	22-26					:			1			21	
ECH ECH	1990 2020	Industrial Training Statics and Dynamics	0			0* 3	0^	<u> </u>						0	
CH CH	2040 2210	Satics and systemics Solid Mechanics I Fluid Mechanics	3			Ť			3					3	
CH	2310	Thermodynamics	3	<u> </u>		3	_	<u> </u>	3					3	
ECH ECH	2410 2520	Engineering Materials I Design and Manufacturing I	3			<u> </u>	3	<u> </u>						3	
ECH ECH	2907 3030	Mechatronic Design and Prototyping Mechanisms of Machinery	3		oxdot	<u> </u>		: !	3		3			3	
ECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 Energy Conversion	3			İ		İ		3				3	
ECH ECH	3420 3520	Engineering Materials II Design and Manufacturing II	3 3			! 		<u> </u>			2				
ECH ECH	3310 3610	Heat Transfer Control Principles	3			<u>: </u>		3			3			3	
ECH	3630 3830	Electrical Technology Laboratory	3			<u> </u>		<u> </u>	3		3			3	
ECH EC	4900 2420	Final Year Design Project Basic Electronics	6			3		<u> </u>				3	3	6	
IGG NG	2010 4034	Engineering Seminar Series Technical Communication II for Mechanical and Areospace Engineering	0			0	0	0	0		3			0	
DDA in Mar		equired credits for Major Requirements Courses and Elective	9S 51			į								51	
BBA in Mar chool Requi															
CCT	2010	Principles of Accounting I	3			3		<u>. </u>	2					3	
CCT		Principles of Accounting II Note: ECON 2103 OR ECON 2113	3			<u> </u>		<u> </u>	3					3	
CON	2103 2113	Principles of Microeconomics Microeconomics	3			3		į						3	
CON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3			!		3						3	
NA	2303	Financial Management	3				3	!						3	Substituted by COMP
OM OM	2010	Introduction to Information Systems Coding for Business	3			<u>i</u>		1						0	1021/1022P/2011
OM OM	2500 2600	Business Statistics Introduction to Business Analytics	3			3		1 1						3	
OM	2700	Operations Management	3			<u> </u>		<u>; </u>					3	3	
ARK GMT	2120 2010	Marketing Management	3				3	<u> </u>				2		3	
	2110	Business Ethics and the Individual	2			:		!							
	0400	Business Ethics and the Individual Organizational Behavior	3			i	3	 	ļ					3	MGMT 2110 is a major pre-re
SMT BMT	2130 1111	Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction	3 2 0			i 	3	<u> </u>					2	3 2 0	
GMT BMT BU		Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility	3 2					3						3 2	
GMT GMT SMT ABU ATH	1111 2040 2060 1003	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	3 2 0 3 3 3-4 3			 								3 2 0 3	Waived for DDP studen
GMT BU BU ATH ATH ATH	1111 2040 2060 1003 1012 1013	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	3 2 0 3 3 3-4	(3)										3 2 0 3	Waived for DDP studen DDP students should take I 1012 or MATH 1013 or MATI or MATH 1023 to satisfy requirements of both BEng ar
SMT MT BU BU .TH .TH .TH	1111 2040 2060 1003 1012	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 IA	3 2 0 3 3 3-4 3 4 3 4 3											3 2 0 3 3	Waived for DDP studen DDP students should take I 1012 or MATH 1013 or MATH or MATH 1023 to satisfy
SMT MT BU SU NTH NTH NTH NTH NTH NTH NTH NT	1111 2040 2060 1003 1012 1013 1020 1023 ements	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 IA Calculus IB Accelerated Calculus I Honors Calculus I	3 2 0 3 3 3-4 3 4 3 4 3											3 2 0 3 3 3	MGMT 2110 is a major pre-re Waived for DDP studen DDP students should take N 1012 or MATH 1013 or MATH or MATH 1023 to satisfy requirements of both BEng ar degrees
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**Remarks on course(s):

^[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

^{*} 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.

>> 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.

4Y SENG

SBM

DDP (BEECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
	Technical Communication II for Chemical and Biological Engineering	3		Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
							Technical Communication II for Chemical and Biological Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y SSCI

SBM

DDP (BTECON/FINA/GBM/MGMT/MARK)

Course code_SSCI	Course title_SSCI	Credits_SSCI	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2010	English for Science I	3	LABU 2040	Business Case Analyses	3	LANG 2010	English for Science I	3	SSCI requirement
LANG 3024	Science Communication in English (Life Science)	3	LABU 2060	Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
						LANG 3024	Science Communication in English (Life Science)	3	SSCI requirement
	Total	12		Tota	12		Total	18	

4Y SENG

SBM

DDP (CEECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
	Technical Communication II for Chemical and Biological Engineering	3	LABU 2060	Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
							Technical Communication II for Chemical and Biological Engineering	3	SENG requirement
	Tota	12		Total	12		Total	18	

4Y SENG

SBM

DDP (CIECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
	Technical Communication II for Civil and Environmental Engineering	3		Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
							Technical Communication II for Civil and Environmental Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y

SENG

SBM

DDP (COECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
LANG 4030	Technical Communication II for CSE & CPEG	3		Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
						LANG 4030	Technical Communication II for CSE & CPEG	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y SENG

SBM

DDP (CPECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
OR	Technical Communication II for CSE & CPEG OR Technical Communication II for ECE & CPEG	3	LABU 2060	Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
						OR	Technical Communication II for CSE & CPEG OR Technical Communication II for ECE & CPEG	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y

SENG SBM

DDP (CVECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
	Technical Communication II for Civil and Environmental Engineering	3	LABU 2060	Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
							Technical Communication II for Civil and Environmental Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y

SENG

SBM

DDP (DAECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
	Technical Communication II for Industrial Engineering and Decision Analytics	3		Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
							Technical Communication II for Industrial Engineering and Decision Analytics	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y SENG

SBM

DDP (EEECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
LANG 4031	Technical Communication II for ECE & CPEG	3		Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
						LANG 4031	Technical Communication II for ECE & CPEG	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y SENG

SBM

DDP (IEECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
	Technical Communication II for Industrial Engineering and Decision Analytics	3		Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
							Technical Communication II for Industrial Engineering and Decision Analytics	3	SENG requirement
	Total	12		Total	12		Total	18	

4Y SENG

SBM

DDP (MEECON/FINA/GBM/MGMT/MARK)

Course code_SENG	Course title_SENG	Credits_SENG	Course code_SBM	Course title_SBM	Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
U Core	English Language	6	U Core	English Language	6	U Core	English Language	6	university requirement
LANG 2030	Technical Communication I	3	LABU 2040	Business Case Analyses	3	LANG 2030	Technical Communication I	3	SENG requirement
	Technical Communication II for Mechanical and Areospace Engineering	3		Effective Communication in Business	3	LABU 2040	Business Case Analyses	3	SBM requirement
						LABU 2060	Effective Communication in Business	3	SBM requirement
							Technical Communication II for Mechanical and Areospace Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	