CUS/13 January 2021
Agenda Item 6
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 Attachment A to the Appendix; and

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

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.

Total: 55 majors (44 new majors)	BEng in Bioengineering	and	BBA in Economics
	BEng in Chemical Engineering		
	BEng in Civil Engineering		BBA in Finance
	BEng in Civil and Environmental Engineering		
	BEng in Computer Engineering		BBA in General Business Management (Existing)
	BEng in Computer Science		
	BEng in Decision Analytics		
	BEng in Electronic Engineering		BBA in Management
	BEng in Industrial Engineering and Engineering Management		
	BEng in Mechanical Engineering		BBA in Marketing
	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:

1. Deviation from Curriculum
   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 (S*ee 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/ Dept.	Approval	Name	Initial	Date
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

Deviation from curriculum

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)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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	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.
BIEN	-	-	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 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	ISOM 2500	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.

Deviation from curriculum

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
BBA in Management (MGMT) OR
BBA in Marketing (MARK)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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
BIOT	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
BIOT	-	-	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

Deviation from curriculum

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
BBA in Management (MGMT) OR
BBA in Marketing (MARK)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

Deviation from curriculum

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
BBA in Management (MGMT) OR
BBA in Marketing (MARK)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

Deviation from curriculum

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)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

Deviation from curriculum

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
BBA in Management (MGMT) OR
BBA in Marketing (MARK)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

Deviation from curriculum

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
BBA in Management (MGMT) OR
BBA in Marketing (MARK)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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	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	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	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

Deviation from curriculum

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)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

Deviation from curriculum

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
BBA in Management (MGMT) OR
BBA in Marketing (MARK)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

Deviation from curriculum

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)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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
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/MARK	-	-	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/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 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/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

Deviation from curriculum

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)

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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
MECH	ENGG 1010	0	Substituted	SBMT 1111	0	***[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.
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

Deviation from curriculum

for Dual Degree Program

Degree Program 1: ***BEng in Decision Analytics (DA)***

Degree Program 2: ***BBA in Finance (FINA)***

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

Deviation from curriculum

for Dual Degree Program

Degree Program 1: ***BEng in Industrial Engineering and Engineering Management (IEEM)***
Degree Program 2: ***BBA in Finance (FINA)***

Degree Program	Original requirements specified for the degree program		Substituted/ Waived/ Additional Req't/ Others	Proposed substituted course/ requirement		Remarks
	Course code/ requirement	Credits		Course code/ requirement	Credits	
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

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BEGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management															
Program:		Dual Degree Program (BEng in Bioengineering and BBA in General Business Management)															
							<< *Declaration of BEng major*		<< *Declaration of BBA major*								
				Student's Pathway													
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 Bioengineering															
Major Requirements															
Engineering Fundamental Courses															
COMP COMP COMP COMP	1021 1022P 1029P 2011	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++	3-5 3 3 1 4		3									3	The course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM	1010 1020	Note: CHEM1010 OR CHEM 1020 General Chemistry IA General Chemistry IB	3 3	3										3	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
LANG	2030	Technical Communication I	3				3							3	
LIFS	1901	General Biology I	3	3										3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3 3	3										3	
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)									0	
		Required credits for Engineering Fundamental Courses	23-29											22	
Major Required Courses and Electives															
BIEN CENG	1010 1000	Note: BIEN 1010 OR CENG 1000 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering	3 3		3									3	
BIEN	2310	Modeling for Chemical and Biological Engineering	3			3								3	
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3					3	
BIEN	2610	Chemical Biology for Engineers	3			3								3	
BIEN	2990	Academic and Professional Development I	1			1								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				3	
BIEN	3910	Bioengineering Laboratory	4							4				4	
BIEN BIEN BIEN	4920 4930 4940	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 Bioengineering Capstone Design Bioengineering Thesis Research Bioengineering Industrial Project	6 6 6									3	3	6	
BIEN	4990	Academic and Professional Development II	1									1		1	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	3230	Chemical and Biological Reaction Engineering	3							3				3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LIFS MATH	3150 2411	Note: LIFS 3150 OR MATH 2411 Biostatistics Applied Statistics	3-4 3 4			3								3	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
SSCI/SENG		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)	15								6	3	6	15	
		Required credits for Major Required Courses and Electives	60-61											60	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3			3								3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3							3				3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/1029P/2011
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by LIFS 3150/MATH 2411
ISOM	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by BIEN3320
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2				2							2	
MGMT	2110	Organizational Behavior	3		3									3	
MGMT	2130	Business Ethics and Social Responsibility	2					2						2	
SBMT	1111	Business Student Induction	0	-	-	-	-	-	-	-	-	-	-	0	Substituted by ENGG 1010
LABU	2040	Business Case Analyses	3					3						3	
LABU	2060	Effective Communication in Business	3						3					3	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											34	
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 of 3000-level or above.)	29					6		3	9	4	7	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3	3	3	6	6	3	3			30	
CORE	C1 & C2	U CORE - English Language	6	3				3						6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				19	18	19	20	20	18	19	18	17	16		
				184##											
						<< *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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BTGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Science and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BSc in Biotechnology and BBA in General Business Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BSc in Biotechnology															
School Requirements															
SCIE	1000	Science School Induction	0	0	0									0	
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3			3								3	This course will be used to substitute ISOM 2010
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3					3						3	
SSCI		Science Foundation courses [8 courses from the specified elective list. Students should take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laboratory course.]	22-25												
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3												
CHEM	1050	Laboratory for General Chemistry I	1												
CHEM	1055	Laboratory for General Chemistry II	1												
LIFS	1030	Environmental Science	3												
LIFS	1901@	General Biology I@	3												LIFS1901 & LIFS1902 are Major Pre-requisite
LIFS	1902@	General Biology II@	3												
LIFS	1903	Laboratory for General Biology I	1												
LIFS	1904	Laboratory for General Biology II	1												
LIFS	1930	Nature of Life Sciences	3												
LIFS	2210	Biochemistry I	3	10	3	6	3							22	Students are recommended to take CHEM1010, CHEM1030, LIFS1903 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2023	Multivariable Calculus	4												
MATH	2121	Linear Algebra	4												
MATH	2131	Honors in Linear and Abstract Algebra I	4												
PHY	1001	Physics and the Modern Society	3												
PHY	1111	General Physics I	3												
PHY	1112	General Physics I with Calculus	3												
PHY	1113	Laboratory for General Physics I	1												
PHY	1114	General Physics II	3												
PHY	1115	Laboratory for General Physics II	1												
PHY	1312	Honors General Physics I	3												
PHY	1314	Honors General Physics II	3												
		Required credits for School / Major Pre-requisite Requirements	25-29											28	
Major Requirements															
Major Required Courses and Electives															
LIFS	1903	Laboratory for General Biology I	1	(1)										0	
LIFS	1904	Laboratory for General Biology II	1		1									1	
LIFS	2040	Cell Biology	3				3							3	
LIFS	2070	Introduction to Biotechnology	3			3								3	
LIFS	2080	Plant Biology	3				3							3	
LIFS	2210	Biochemistry I	3			(3)								0	
LIFS	3060	Microbiology	3						3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3					3						3	
LIFS	3140	General Genetics	4							4				4	
LIFS	4150	Plant Biotechnology	3									3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3							3				3	
		Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) [Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]	3-7												
LIFS	4963	Biotechnology Capstone Project	3									[3]	3	3	
LIFS	4973	Biotechnology Project Research I	3												
LIFS	4983	Biotechnology Project Research II	4												
SCIE	4500	IRE Research Project II	3												
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	(3)										0	
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3		(3)									0	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
CHEM	1055	Laboratory for General Chemistry II	1		1									1	
		Note: CHEM 2110 OR CHEM 2311													
CHEM	2110	Organic Chemistry I	3					3						3	
CHEM	2311	Analytical Chemistry	3												
		Note: CHEM2155 OR CHEM2355													
CHEM	2155	Fundamental Organic Chemistry Laboratory	1						1					1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
CENG	1600	Biotechnology and Its Business Opportunities	3							3				3	
LANG	3024	Science Communication in English (Life Science)	3										3	3	
LIFS/BIPH/BTEC/BIEN/ CENG		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. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	15-18						3		3	6	3	15	
		Required credits for Major Required Courses and Electives	62-70											56	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q/2011
ISOM	2020	Coding for Business	1						1					1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1							1				1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2		2									2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2					2						2	
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		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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
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 of 3000-level or above.)	29					3	6	3	7	3	7	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3		3	3		3	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				17	19	18	21	20	20	20	19	18	19		
				191##											
						<< Declaration of BEng major		***<< Declaration of BBA 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.

**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.

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Interdisciplinary Programs Office

An Example on Student's Pathway

CEGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Chemical Engineering and BBA in General Business Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Chemical Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	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	3										3	
CENG	1500	A First Course on Materials Science and Applications	3												
		Note: CENG1600 OR CENG1700 OR BIEN1010													
CENG	1600	Biotechnology and Its Business Opportunities	3		3									3	
CENG	1700	Introduction to Environmental Engineering	3												
BIEN	1010	Introduction to Biomedical Engineering	3												
CENG	1010	Academic and Professional Development I	0			0								0	
CENG	1980	Industrial Training	0				0	0	0	0				0	
CENG	2110	Process and Product Design Principles	3			3								3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	2220	Process Fluid Mechanics	3				3							3	
CENG	2310	Modeling for Chemical and Biological Engineering	3			3								3	
CENG	3110	Process Dynamics and Control	3						3					3	
CENG	3150	Integrated Chemical Process & Product Design	5						5					5	
CENG	3210	Separation Processes	3					3						3	
CENG	3220	Heat and Mass Transfer	3					3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4			4	
CENG	4020	Academic and Professional Development II	0									0		0	
		Note: CENG4920 OR CENG4930 OR CENG4940													
CENG	4920	Chemical Engineering Capstone Design	6												
CENG	4930	Chemical Engineering Thesis Research	6									3	3	6	
CENG	4940	Chemical Engineering Industrial Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM	1050	Laboratory for General Chemistry I	1		1									1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3							3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1				1							1	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
		Note: BIEN2410 OR BIEN2610 OR LIFS1901													
BIEN	2410	Cellular and Systems Physiology for Engineers	3												
BIEN	2610	Chemical Biology for Engineers	3				3							3	
LIFS	1901	General Biology I	3												
SENG/SSCI/ENVR		CENG Elective (12 credits from specified elective list)	12					3	3	3	3			12	
		Required credits for Major Requirements Courses and Electives	68											68	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3							3				3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3									3		3	
MARK	2120	Marketing Management	3		3									3	
MGMT	2010	Business Ethics and the Individual	2						2					2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2								2			2	
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	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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	45-46											39	
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 of 3000-level or above.)	29						3	9		7	10	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30				3	6		3	12	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	19	21	19	20	19	21	21	19	19		
				196##											

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

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CIGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Civil Engineering and BBA in General Business Management)**														
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**	
						<< Declaration of BEng major		***<< Declaration of BBA major***								
BEng in Civil Engineering																
Major Requirements																
Engineering Fundamental Courses																
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4 3		3									3	This course will also be used to substitute ISOM 2010	
COMP	1022P	Introduction to Computing with Java	3													
COMP	2011	Programming with C++	4													
ENGG	1010	Academic Orientation	0	0	0									0		
CHEM	1010	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA	3	3										3		
CHEM	1020	General Chemistry IB	3													
LANG	2030	Technical Communication I	3					3						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 4	3	3									6		
MATH	1013	Calculus IB	3													
MATH	1014	Calculus II	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
MATH	1024	Honors Calculus II	3													
MATH	2011	Introduction to Multivariable Calculus	3			3								3		
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													
		Required credits for Engineering Fundamental Courses	22-26											24		
Major Required Courses and Electives																
CIVL	1010	Academic Professional Development I	0			0	0							0		
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3		
CIVL	2010	Academic Professional Development II	0					0	0					0		
CIVL	2020	Industrial and BIM Training	0			0*	0							0		
CIVL	2110	Statics	3			3								3		
CIVL	2120	Mechanics of Materials	3				3							3		
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500	
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3		
CIVL	2410	Environmental Assessment and Management	3				3							3		
CIVL	2510	Fluid Mechanics	3				3							3		
CIVL	2810	Construction Materials	3					3						3		
CIVL	3010	Academic Professional Development III	0							0	0			0		
CIVL	3020	Internship Training	0								0^			0		
CIVL	3210	Introduction to Construction Management	3						3					3		
CIVL	3310	Structural Analysis	3					3						3		
CIVL	3320	Reinforced Concrete Design	3						3					3		
CIVL	3510	Hydrosystems Engineering	3					3						3		
CIVL	3610	Traffic and Transportation Engineering	3						3					3		
CIVL	3730	Fundamentals of Geotechnics	3							3				3		
CIVL	3740	Geotechnical Analysis and Design	3								3			3		
CIVL	4910	Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project	6									3	3	6		
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6													
CIVL	4950	Civil Engineering Capstone Design Project	3									3		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/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								3	3	3	9		
		Required credits for Major Requirements Courses and Electives	66											66		
BBA in General Business Management																
School Requirements																
ACCT	2010	Principles of Accounting I	3			3								3		
ACCT	2200	Principles of Accounting II	3						3					3		
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3		
ECON	2113	Microeconomics	3													
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3		
ECON	3123	Macroeconomic Theory I	3													
FINA	2303	Financial Management	3				3							3		
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P	
ISOM	2020	Coding for Business	1				1							1		
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160	
ISOM	2600	Introduction to Business Analytics	1				1							1		
ISOM	2700	Operations Management	3						3					3		
MARK	2120	Marketing Management	3				3							3		
MGMT	2010	Business Ethics and the Individual	2						2					2		
MGMT	2110	Organizational Behavior	3			3								3		
MGMT	2130	Business Ethics and Social Responsibility	2							2				2		
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				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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees	
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
		Required credits for School Requirements	43-44											36		
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 of 3000-level or above.)	29					3		6	6	7	7	29		
		Required credits for Major Required Courses and Electives	29											29		
Additional Requirements																
Requirements for Dual Degree Program																
Required Courses																
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									3		
		Required credits for Additional Requirements	3											3		
University 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									6		
		Sub-total for University CORE	36											36		
				Term load (excl. free credits)												
				18	18	21	20	21	20	20	18	19	19			
				194##												
						<< Declaration of BEng major		***<< Declaration of BBA major***								

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

COGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Computer Science and BBA in General Business Management)**														
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**
						<< Declaration of BEng major		***<< Declaration of BBA major***							
BEng in Computer Science															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P													
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312													
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3	3										3	
LIFS	1901	General Biology I	3												
PHYS	1001	Physics and the Modern Society	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2111	Matrix Algebra and Applications	3			3								3	
SENG		Engineering Introduction course (COMP students may also use COMP1022P or COMP1022Q to fulfill this requirement)	3-4	(3)										0	
		Required credits for Engineering Fundamental Courses	19-23											18	
Major Required Courses and Electives															
		Note: (COMP2011 AND COMP2012) OR COMP2012H	5-8												
COMP	2011	Programming with C++	4			4	4							8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Computer Organization	4						4					4	
		Note: COMP2711 OR COMP2711H													
COMP	2711	Discrete Mathematical Tools for Computer Science	4			4								4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
		Note: COMP3111 OR COMP3111H													
COMP	3111	Software Engineering	4					4						4	
COMP	3111H	Honors Software Engineering	4												
COMP	3511	Operating Systems	3							3				3	
		Note: COMP3711 OR COMP3711H	3-4												
COMP	3711	Design and Analysis of Algorithms	3					3						3	
COMP	3711H	Honors Design and Analysis of Algorithms	4												
		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	0												
COMP		Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910	6												
COMP	1991	Industrial Experience	0												
COMP	4981	Final Year Project	6									3	3	6	
COMP	4981H	Final Year Thesis	6												
COMP	4910	Co-op FYP Program	6												
		Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431	3-4												
ELEC	2600	Probability and Random Processes in Engineering	4												
IEDA	2520	Probability for Engineers	3												Students should take MATH 2411 which will also be used to substitute ISOM 2500
IEDA	2540	Statistics for Engineers	3				4							4	
MATH	2411	Applied Statistics	4												
MATH	2421	Probability	4												
MATH	2431	Honors Probability	4												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Technical Communication II for CSE & CPEG	3									3		3	
COMP		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.)	15							3	6	3	3	15	
COMP		COMP Elective (Any 1 course offered under COMP)	3										3	3	
		Required credits for Major Requirements Courses and Electives	53-58											57	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by MATH 2411
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3		3									3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2							2				2	
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					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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
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 of 3000-level or above.)	29					6	3	3	6	7	4	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University 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									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	19	18	20	19	17	18	16	16		
				179##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CPGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Computer Engineering and BBA in General Business Management)**													
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**
						<< Declaration of BEng major		*<< Declaration of BBA major*							
BEng in Computer Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	2030	Technical Communication I	3				3							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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
MATH	2111	Matrix Algebra and Applications	3					3						3	
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
PHYS	1114	Note: PHYS1114 OR PHYS1314 General Physics II	3						3					3	
PHYS	1314	Honors General Physics II	3												
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)										0	
		Required credits for Engineering Fundamental Courses	25-29											24	
Major Required Courses and Electives															
CPEG	2930	Academic and Professional Development I	0			0	0							0	
CPEG	3930	Academic and Professional Development II	0					0	0					0	
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4			4		4						8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Note: COMP2611 OR ELEC2350 Computer Organization	4 4				4							4	
ELEC	2350	Introduction to Computer Organization and Design	4												
COMP	2711	Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science	4 4							4				4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
ELEC	2600	Probability and Random Processes in Engineering	4												
COMP	3511	Operating Systems	3								3			3	
COMP	4521	Note: COMP4521 OR COMP4611 OR ELEC 4310 Mobile Application Develoepment	3-4 3									3		3	
COMP	4611	Design and Analysis of Computer Architectures	3												
ELEC	4310	Embedded System Design	4												
ELEC	4320	FPGA-based Design: From Theory to Practice	3												
ELEC	4330	Mobile Embedded Systems: Hardware Platform, Software Development, and Applications	3												
CPEG	1971	Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) AND CPEG1971] OR CPEG4910 Industrial Experience	6 0									3	3	6	
CPEG	4901	Computer Engineering Final Year Project in COMP	6												
CPEG	4902	Computer Engineering Final Year Thesis in COMP	6												
CPEG	4911	Computer Engineering Final Year Project in ELEC	6												
CPEG	4912	Computer Engineering Final Year Thesis in ELEC	6												
CPEG	4910	Co-op Program	6												
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC		Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets	8 4				4		4					8	
ELEC	1200	Signals and Systems	4												
ELEC	2100	Electronic Circuits	4												
ELEC	2400	Introduction to Embedded Systems	4								4			4	
ELEC	3300	Engineering Seminar Series	0			0	0	0	0					0	
ENGG	2010	Note: LANG4030 OR LANG4031 Technical Communication II for CSE & CPEG	3									3		3	
LANG	4030	Technical Communication II for ECE & CPEG	3												
LANG	4031	Area Courses (At least 4 courses from the specified elective list , of which at least 2 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					4	4	4	15	
COMP/ELEC		**Required credits for Major Requirements Courses and Electives**	59-63											62	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3		3									3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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					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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
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 of 3000-level or above.)	29					3	3	7	3	3	10	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3	3				9	6	3		30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	20	20	19	20	20	19	19		
				193##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CVGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in General Business Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Civil and Environmental Engineering															
Major Requirements															
Engineering Fundamental Courses															
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									3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM	1010 1020	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA General Chemistry IB	3 3	3										3	
LANG	2030	Technical Communication I	3					3						3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3 3	3										3	
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
CIVL CIVL	3210 3610	Note: CIVL3210 OR CIVL3610 Introduction to Construction Management Traffic and Transportation Engineering	3 3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3420	Water and Wastewater Engineering	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
CIVL CIVL	4910 4920	Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project Civil and Environmental Engineering Final Year Thesis	6 6									3	3	6	
CIVL	4950	Civil Engineering Capstone Design Project	3									3		3	
CIVL CIVL CIVL	4450 5450 5460	Note: CIVL4450 OR CIVL 5450 OR CIVL5460 Carbon Footprint Analysis and Reduction Hazardous Waste Treatment and Site Remediation Landfill Engineering and Design	3 3 3								3			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/SENG		CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted Electives".] 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)	6									3	3	6	
		Required credits for Major Requirements Courses and Electives	66											66	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3			3								3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3					3						3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1		1									1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3		3									3	
MGMT	2130	Business Ethics and Social Responsibility	2								2			2	
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Substituted by ENGG 1010
LABU	2040	Business Case Analyses	3										3	3	
LABU	2060	Effective Communication in Business	3							3				3	
MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											36	
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 of 3000-level or above.)	29					3	3	7	3	6	7	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	1	U CORE - Others	30	6			3		3	6	9		3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	19	20	21	19	21	19	20	18	19		
				194##											

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

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

DAGBM 2020-21 Intake

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Decision Analytics and BBA in General Business Management)**													**Remarks**
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	
BEng in Decision Analytics															
Major Requirements															
Engineering Fundamental Courses															
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									3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM PHYS PHYS	1010 1020 1112 1312	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA General Chemistry IB General Physics I with Calculus Honors General Physics I	 3 3 3 3	3										3	
LANG	2030	Technical Communication I	3				3							3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
SENG		Engineering Introduction course (If the students take an introduction course included in their major, th course can be counted towards their major requirement.	3-4		(3)									0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA IEDA	1990 1991	Note: IEDA1990 OR IEDA1991 Industrial Training Industrial Experience	 0 0			0	0	0	0	0	0	0	0	0	
IEDA	2520	Probaility for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Prescriptive Analytics	3					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	
IEDA	3560	Predictive Analytics	3						3					3	
IEDA IEDA	4901 4920	Note: IEDA4901 OR IEDA4920 Final Year Thesis Decision Analytics Final Year Project	 6 6									3	3	6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
ECON ECON	2103 2113	Note: ECON2103 OR ECON2113 Principles of Microeconomics Microeconomics	 3 3			3								3	
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3						3					3	
IEDA		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from th same area)	15						3	6	3	3		15	
		Required credits for Major Required Courses and Electives	48											48	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	 3 3			(3)								0	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory	 3 3									3		3	
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3								3			3	
MARK	2120	Marketing Management	3	3										3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2							2				2	
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					3	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											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 ar of 3000-level or above.'	29					3		6	6	7	7	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	6	3	3			3	6		3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	16	18	17	18	16	13		
				170##											
						<< 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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

EEGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Electronic Engineering and BBA in General Business Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
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)	9-10												
ELEC	2600	Probability and Random Processes in Engineering	4												
ELEC	2600H	Honors Probability and Random Processes in Engineering	4	3		3		3						9	
MATH	2011	Introduction to Multivariable Calculus	3												
MATH	2111	Matrix Algebra and Applications	3												
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: COMP1021 OR COMP1022P													
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4			4								4	
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
		Note: PHYS1112 OR PHYS1312	3												
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Note: PHYS1114 OR PHYS1314	3												
PHYS	1114	General Physics II	3		3									3	
PHYS	1314	Honors General Physics II	3												
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)									0	
		Required credits for Engineering Fundamental Courses	32-37											31	
Major Required Courses and Electives															
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	A System View of Communications: from Signals to Packets	4				4							4	
		Note: ELEC2100 OR ELEC2100H													
ELEC	2100	Signals and Systems	4							4				4	
ELEC	2100H	Honors Signals and Systems	4												
ELEC	2350	Introduction to Computer Organization and Design	4							4				4	
ELEC	2400	Electronic Circuits	4						4					4	
ELEC	2910	Academic and Professional Development I	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	6												
ELEC	4901	Final Year Thesis	6									3	3	6	
ELEC	2991	Industrial Experience (Electronic Engineering)	0												
ELEC	4910	Co-op Program	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4031	Technical Communication II for ECE & CPEG	3									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				3		3		6	3	6	21	
		Required credits for Major Requirements Courses and Electives	50											50	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON2103 OR ECON2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON2123 OR ECON3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2									2		2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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						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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
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 of 3000-level or above.)	29					6	3	6	4	3	7	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3				3	6	9	3		30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	20	19	20	19	17	18		
				188##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

IEGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in General Business Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Industrial Engineering and Engineering Management															
Major Requirements															
Engineering Fundamental Courses															
COMP COMP COMP	1021 1022P 2011	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++	3-4 3 3 4	3										3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM PHYS PHYS	1010 1020 1112 1312	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA General Chemistry IB General Physics I with Calculus Honors General Physics I	 3 3 3 3	3										3	
LANG	2030	Technical Communication I	3					3						3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)										0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA IEDA	1990 1991	Note: IEDA1990 OR IEDA1991 Industrial Training Industrial Experience	 0 0			0*	0^							0	
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Presciptive Analytics	3					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	
IEDA	4100	Integrated Production Systems	3								3			3	This course will also be used to substitute ISOM 2700
IEDA	4130	System Simulation	3								3			3	
IEDA IEDA	4901 4960	Note: IEDA4901 OR IEDA4990 Final Year Thesis Industrial Engineering and Engineering Management Final Year Project	 6 6									3	3	6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0	0	0	0	0	0	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	 3 3			3								3	
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3									3		3	
IEDA		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			6	3			3		3	6	21	
		Required credits for Major Requirements Courses and Electives	57											57	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	 3 3			(3)								0	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	 3 3				3							3	
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 4100
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3		3									3	
MGMT	2130	Business Ethics and Social Responsibility	2								2			2	
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				3	
MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											30	
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 of 3000-level or above.)	29						3	9	3	7	7	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3	3		3	6	3	6			30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	19	18	18	17	16	16		
				176##											

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

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

MEGBM **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Mechanical Engineering and BBA in General Business Management)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Mechanical Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3							3				3	
		Note: MATH2111 OR MATH2350 OR MATH2351													
MATH	2111	Matrix Algebra and Applications	3												
MATH	2350	Applied Linear Algebra and Differential Equations	3							3				3	
MATH	2351	Introduction to Differential Equations	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3		3									3	
PHYS	1312	Honors General Physics I	3												
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)									0	
		Required credits for Engineering Fundamental Courses	22-26											21	
Major Required Courses and Electives															
MECH	1990	Industrial Training	0			0*	0^							0	
MECH	2020	Statics and Dynamics	3			3								3	
MECH	2040	Solid Mechanics I	3						3					3	
MECH	2210	Fluid Mechanics	3						3					3	
MECH	2310	Thermodynamics	3			3								3	
MECH	2410	Engineering Materials I	3				3							3	
MECH	2520	Design and Manufacturing I	3				3							3	
MECH	2907	Mechatronic Design and Prototyping	3						3					3	
MECH	3030	Mechanisms of Machinery	3								3			3	
		Note: MECH3300 OR MECH3420 OR MECH3520													
MECH	3300	Energy Conversion	3							3				3	
MECH	3420	Engineering Materials II	3												
MECH	3520	Design and Manufacturing II	3												
MECH	3310	Heat Transfer	3								3			3	
MECH	3610	Control Principles	3					3						3	
MECH	3630	Electrical Technology	3						3					3	
MECH	3830	Laboratory	3								3			3	
MECH	4900	Final Year Design Project	6									3	3	6	
ELEC	2420	Basic Electronics	3			3								3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4034	Technical Communication II for Mechanical and Areospace Engineering	3								3			3	
		Required credits for Major Requirements Courses and Electives	51											51	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2					2						2	
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				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 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
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 of 3000-level or above.)	29					6		3	3	7	10	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	6					3	3	6	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	18	19	18	18	18	16	16		
				179##											

<< Declaration of BEng major

<< Declaration of BBA major

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BEFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Bioengineering and BBA in Finance)**														
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Bioengineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P]	3-5												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3		3									3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1029P	Python Programming Bridging Course	1												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
CHEM	1050	Laboratory for General Chemistry I	1	1										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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3	3	3									6	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus I	3												
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
SENG		Engineering Introduction course (If the students take an introduction course included in their major, thi course can be counted towards their major requirement.	3-4		(3)									0	
		Required credits for Engineering Fundamental Courses	23-29											22	
Major Required Courses and Electives															
		Note: BIEN 1010 OR CENG 1000													
BIEN	1010	Introduction to Biomedical Engineering	3		3									3	
CENG	1000	Introduction to Chemical and Biilological Engineering	3												
BIEN	2310	Modeling for Chemical and Biological Engineering	3			3								3	
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3					3	
BIEN	2610	Chemical Biology for Engineers	3			3								3	
BIEN	2990	Academic and Professional Development I	1			1								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				3	
BIEN	3910	Bioengineering Laboratory	4							4				4	
		Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940													
BIEN	4920	Bioengineering Capstone Design	6												
BIEN	4930	Bioengineering Thesis Research	6									3	3	6	
BIEN	4940	Bioengineering Industrial Projec	6												
BIEN	4990	Academic and Professional Development II	1									1		1	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	3230	Chemical and Biological Reaction Engineering	3							3				3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
		Note: LIFS 3150 OR MATH 2411	3-4												
LIFS	3150	Biostatistics	3			3								3	
MATH	2411	Applied Statistics	4												
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
SSCI/SENG		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)	15								6	3	6	15	
		Required credits for Major Required Courses and Electives	60-61											60	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/1029P/2011
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by LIFS 3150/MATH 2411
ISOM	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by BIEN3320
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3		3									3	
MGMT	2130	Business Ethics and Social Responsibility	2					2						2	
SBMT	1111	Business Student Induction	0	-	-	-	-	-	-	-	-	-	-	0	Substituted by ENGG 1010
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												
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	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	1013	Calculus IB	3	(3)										0	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											34	
Major Requirements															
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3								3			3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3												
ACCT	3020	Financial Accounting II	3					3						3	
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3												
ISOM	3400	Python Programming for Business Analytics	3		(3)									0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3			3	6	6	3	6	3		30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				19	18	18	18	18	18	19	18	19	12		
				177##											

<< 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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BTFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Science and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BSc in Biotechnology and BBA in Finance)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BSc in Biotechnology															
School Requirements															
SCIE	1000	Science School Induction	0	0	0									0	
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3			3								3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3					3						3	
SSCI		Science Foundation courses [8 courses from the specified elective list. Students shoul take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laboratory course.]	22-25												
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3												
CHEM	1050	Laboratory for General Chemistry I	1												
CHEM	1055	Laboratory for General Chemistry II	1												
LIFS	1030	Environmental Science	3												
LIFS	1901@	General Biology I@	3												LIFS1901 & LIFS1902 are Major Pre requisite
LIFS	1902@	General Biology II@	3												
LIFS	1903	Laboratory for General Biology I	1												
LIFS	1904	Laboratory for General Biology II	1												
LIFS	1930	Nature of Life Sciences	3	10	3	6	3							22	Students are recommended to take CHEM1010, CHEM1030, LIFS1903 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
LIFS	2210	Biochemistry I	3												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2023	Multivariable Calculus	4												
MATH	2121	Linear Algebra	4												
MATH	2131	Honors in Linear and Abstract Algebra I	4												
PHY	1001	Physics and the Modern Society	3												
PHY	1111	General Physics I	3												
PHY	1112	General Physics I with Calculus	3												
PHY	1113	Laboratory for General Physics I	1												
PHY	1114	General Physics II	3												
PHY	1115	Laboratory for General Physics I	1												
		Required credits for School / Major Pre-requisite Requirements	25-29											28	
Major Requirements															
Major Required Courses and Electives															
LIFS	1903	Laboratory for General Biology I	1	(1)										0	
LIFS	1904	Laboratory for General Biology II	1		1									1	
LIFS	2040	Cell Biology	3				3							3	
LIFS	2070	Introduction to Biotechnology	3			3								3	
LIFS	2080	Plant Biology	3				3							3	
LIFS	2210	Biochemistry I	3			(3)								0	
LIFS	3060	Microbiology	3						3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3					3						3	
LIFS	3140	General Genetics	4							4				4	
LIFS	4150	Plant Biotechnology	3									3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3							3				3	
		Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) [Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]	3-7												
LIFS	4963	Biotechnology Capstone Project	3									[3]	3	3	
LIFS	4973	Biotechnology Project Research I	3												
LIFS	4983	Biotechnology Project Research II	4												
SCIE	4500	IRE Research Project I	3												
		Note: CHEM1010 OR CHEM1020	3												
CHEM	1010	General Chemistry IA	3	(3)										0	
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3		(3)									0	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
CHEM	1055	Laboratory for General Chemistry II	1		1									1	
		Note: CHEM 2110 OR CHEM 2311	3												
CHEM	2110	Organic Chemistry I	3					3						3	
CHEM	2311	Analytical Chemistry	3												
		Note: CHEM2155 OR CHEM2355	1												
CHEM	2155	Fundamental Organic Chemistry Laboratory	1						1					1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
CENG	1600	Biotechnology and Its Business Opportunities	3							3				3	
LANG	3024	Science Communication in English (Life Science)	3										3	3	
LIFS/BIPH/BTEC/BIEN/ CENG		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. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	15-18						3		3	6	3	15	
		Required credits for Major Required Courses and Electives	62-70											56	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113	3												
ECON	2103	Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123	3												
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1							1				1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2		2									2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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		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												
MATH	1012	Calculus IA	4	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3								3			3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3					3						3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3												DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
ISOM	3400	Python Programming for Business Analytics	3			(3)								0	
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3				6	6	6	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				17	19	18	19	19	19	20	18	18	17		
				184##											
						<< Declaration of BEng major		***<< Declaration of BBA 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.

--- 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CEFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Chemical Engineering and BBA in Finance)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Chemical Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4 3	3										3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1010	Note: CHEM1010 OR CHEM1020 General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	2030	Technical Communication I	3					3						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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
PHYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	19-23											21	
Major Required Courses and Electives															
CENG	1000	Note: CENG1000 OR CENG1500 Introduction to Chemical and Biological Engineering	3	3										3	
CENG	1500	A First Course on Materials Science and Applications	3												
CENG	1600	Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities	3		3									3	
CENG	1700	Introduction to Environmental Engineering	3												
BIEN	1010	Introduction to Biomedical Engineering	3												
CENG	1010	Academic and Professional Development I	0			0								0	
CENG	1980	Industrial Training	0				0	0	0	0				0	
CENG	2110	Process and Product Design Principles	3			3								3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	2220	Process Fluid Mechanics	3				3							3	
CENG	2310	Modeling for Chemical and Biological Engineering	3			3								3	
CENG	3110	Process Dynamics and Control	3						3					3	
CENG	3150	Integrated Chemical Process & Product Design	5						5					5	
CENG	3210	Separation Processes	3					3						3	
CENG	3220	Heat and Mass Transfer	3					3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4			4	
CENG	4020	Academic and Professional Development II	0									0		0	
CENG	4920	Note: CENG4920 OR CENG4930 OR CENG4940 Chemical Engineering Capstone Design	6									3	3	6	
CENG	4930	Chemical Engineering Thesis Research	6												
CENG	4940	Chemical Engineering Industrial Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM	1050	Laboratory for General Chemistry I	1		1									1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3							3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1				1							1	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
BIEN	2410	Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers	3				3							3	
BIEN	2610	Chemical Biology for Engineers	3												
LIFS	1901	General Biology I	3												
SENG/SSCI/ENVR		CENG Elective (12 credits from specified elective list)	12					3	3	3	3			12	
		Required credits for Major Requirements Courses and Electives	68											68	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3							3				3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1			1								1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1			1								1	
ISOM	2700	Operations Management	3									3		3	
MARK	2120	Marketing Management	3		3									3	
MGMT	2010	Business Ethics and the Individual	2							2				2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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	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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	45-46											39	
Major Requirements															
Major Required Courses and Electives															
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	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3	(3)										0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
ISOM	3400	Python Programming for Business Analytics	3												
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30				3		9		6	6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	19	20	19	19	20	20	19	18	17		
				189##											

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

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CIFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Civil Engineering and BBA in Finance)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Civil Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3		3									3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM 1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
CIVL	3210	Introduction to Construction Management	3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3610	Traffic and Transportation Engineering	3						3					3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
		Note: CIVL 4910 OR CIVL 4920													
CIVL	4910	Civil and Environmental Engineering Final Year Project	6									3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6												
CIVL	4950	Civil Engineering Capstone Design Project	3									3		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/SENG		CIVL: Any CIVL courses at 4000-level or above except CIVL 4230	9								3	3	3	9	
		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 Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2								2			2	
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				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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3								3			3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3		(3)									0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
ISOM	3400	Python Programming for Business Analytics	3												
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6					3	6	6	3	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	20	19	18	18	20	18	18		
				187##											
						<< Declaration of BEng major		***<< Declaration of BBA major***							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

COFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Computer Science and BBA in Finance)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Computer Science															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P													
COMP	1021	Introduction to Computer Science	3	3										3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312													
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3	3										3	
LIFS	1901	General Biology I	3												
PHYS	1001	Physics and the Modern Society	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus I	3												
MATH	2111	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	
		Required credits for Engineering Fundamental Courses	19-23											18	
Major Required Courses and Electives															
		Note: (COMP2011 AND COMP2012) OR COMP2012H	5-8												
COMP	2011	Programming with C++	4			4	4							8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Computer Organization	4						4					4	
		Note: COMP2711 OR COMP2711H													
COMP	2711	Discrete Mathematical Tools for Computer Science	4			4								4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
		Note: COMP3111 OR COMP3111H													
COMP	3111	Software Engineering	4					4						4	
COMP	3111H	Honors Software Engineering	4												
COMP	3511	Operating Systems	3							3				3	
		Note: COMP3711 OR COMP3711H	3-4												
COMP	3711	Design and Analysis of Algorithms	3					3						3	
COMP	3711H	Honors Design and Analysis of Algorithms	4												
		Note: Students are required to take COMP4900 for every regular term in which they are in residency at HKUST with major in COMP													
COMP	4900	Academic and Professional Development	0			0	0	0	0	0	0	0	0	0	
COMP		Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910	6												
COMP	1991	Industrial Experience	0												
COMP	4981	Final Year Project	6									3	3	6	
COMP	4981H	Final Year Thesis	6												
COMP	4910	Co-op FYP Program	6												
		Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431	3-4												
ELEC	2600	Probability and Random Processes in Engineering	4												
IEDA	2520	Probability for Engineers	3												Students should take MATH 2411 which will also be used to substitute ISOM 2500.
IEDA	2540	Statistics for Engineers	3			4								4	
MATH	2411	Applied Statistics	4												
MATH	2421	Probability	4												
MATH	2431	Honors Probability	4												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Technical Communication II for CSE & CPEG	3									3		3	
COMP		COMP Electives (5 courses from the specified elective list, of which at least 3 course should be taken from 1 area and at least 2 courses outside that area.	15							3	6	3	3	15	
COMP		COMP Elective (Any 1 course offered under COMP)	3										3	3	
		Required credits for Major Requirements Courses and Electives	53-58											57	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by MATH 2411
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3		3									3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2				2							2	
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					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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3								3			3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3												
ISOM	3400	Python Programming for Business Analytics	3	(3)										0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3		3		3	6	3	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	18	16	18	15	15	15		
				172##											

<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CPFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Computer Engineering and BBA in Finance)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Computer Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3										3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	2030	Technical Communication I	3				3							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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
MATH	2111	Matrix Algebra and Applications	3					3						3	
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
PHYS	1114	Note: PHYS1114 OR PHYS1314 General Physics II	3						3					3	
PHYS	1314	Honors General Physics II	3												
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)										0	
		Required credits for Engineering Fundamental Courses	25-29											24	
Major Required Courses and Electives															
CPEG	2930	Academic and Professional Development I	0			0	0							0	
CPEG	3930	Academic and Professional Development II	0					0	0					0	
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4												
COMP	2012	Object-Oriented Programming and Data Structures	4			4		4						8	
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Note: COMP2611 OR ELEC2350 Computer Organization	4 4				4							4	
ELEC	2350	Introduction to Computer Organization and Design	4												
COMP	2711	Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science	4 4							4				4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
ELEC	2600	Probability and Random Processes in Engineering	4												
COMP	3511	Operating Systems	3								3			3	
COMP	4521	Note: COMP4521 OR COMP4611 OR ELEC 4310 Mobile Application Develoepment	3-4 3									3		3	
COMP	4611	Design and Analysis of Computer Architectures	3												
ELEC	4310	Embedded System Design	4												
ELEC	4320	FPGA-based Design: From Theory to Practice	3												
ELEC	4330	Mobile Embedded Systems: Hardware Platform, Software Development, and Applications	3												
CPEG	1971	Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) AND CPEG1971] OR CPEG4910 Industrial Experience	6 0												
CPEG	4901	Computer Engineering Final Year Project in COMP	6									3	3	6	
CPEG	4902	Computer Engineering Final Year Thesis in COMP	6												
CPEG	4911	Computer Engineering Final Year Project in ELEC	6												
CPEG	4912	Computer Engineering Final Year Thesis in ELEC	6												
CPEG	4910	Co-op Program	6												
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets	8 4				4		4					8	
ELEC	2100	Signals and Systems	4												
ELEC	2400	Electronic Circuits	4												
ELEC	3300	Introduction to Embedded Systems	4								4			4	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Note: LANG4030 OR LANG4031 Technical Communication II for CSE & CPEG	3									3		3	
LANG	4031	Technical Communication II for ECE & CPEG	3												
COMP/ELEC		Area Courses (At least 4 courses from the specified elective list , of which at least 2 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					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	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2								2			2	
MGMT	2110	Organizational Behavior	3		3									3	
MGMT	2130	Business Ethics and Social Responsibility	2									2		2	
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					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 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
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	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3												DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
ISOM	3400	Python Programming for Business Analytics	3	(3)										0	
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3	3			3	9			6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	20	19	19	19	19	18	16		
				186##											

<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CVFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in Finance)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Civil and Environmental Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3		3									3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM 1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus I	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
		Note: CIVL3210 OR CIVL3610	3												
CIVL	3210	Introduction to Construction Management	3						3					3	
CIVL	3610	Traffic and Transportation Engineering	3												
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3420	Water and Wastewater Engineering	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
		Note: CIVL 4910 OR CIVL 4920													
CIVL	4910	Civil and Environmental Engineering Final Year Project	6									3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6												
CIVL	4950	Civil Engineering Capstone Design Project	3									3		3	
		Note: CIVL4450 OR CIVL 5450 OR CIVL5460													
CIVL	4450	Carbon Footprint Analysis and Reduction	3								3			3	
CIVL	5450	Hazardous Waste Treatment and Site Remediation	3												
CIVL	5460	Landfill Engineering and Design	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/SENG		CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted Electives".] 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)	6									3	3	6	
		Required credits for Major Requirements Courses and Electives	66											66	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1						1					1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3		3									3	
MGMT	2130	Business Ethics and Social Responsibility	2								2			2	
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Substituted by ENGG 1010
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												
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3								3			3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3		(3)									0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
ISOM	3400	Python Programming for Business Analytics	3												
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6					3	6	6	3	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	19	19	18	20	18	18		
				187##											

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

DAFINA (Via DDP PBA) **2020-21 Intake**

School:		School of Engineering and School of Business Management		Student's Pathway		<< Declaration of BEng major		<< Declaration of BBA major								
Program:		**Dual Degree Program (BEng in Decision Analytics and BBA in Finance)**														
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Decision Analytics															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4 3		3									3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1010	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3	3										3	
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	2030	Technical Communication I	3				3							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 4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)									0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA	1990	Note: IEDA1990 OR IEDA1991 Industrial Training	0			0	0	0	0	0	0	0	0	0	
IEDA	1991	Industrial Experience	0												
IEDA	2520	Probaility for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by ISOM2500
IEDA	3010	Prescriptive Analytics	3					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	
IEDA	3560	Predictive Analytics	3						3					3	
IEDA	4901	Note: IEDA4901 OR IEDA4920 Final Year Thesis	6									3	3	6	
IEDA	4920	Decision Analytics Final Year Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
ECON	2103	Note: ECON2103 OR ECON2113 Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3						3					3	
IEDA		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the same area)	15						3	6	3	3		15	
		Required credits for Major Required Courses and Electives	48											45	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			(3)								0	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3									3		3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	This course will also be used to substitute IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3								3			3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2							2				2	
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					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 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
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	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3		(3)									0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
ISOM	3400	Python Programming for Business Analytics	3												
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	6			3		3	3		6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	17	18	17	15	12	12		
				163##											
						<< 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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

EEFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Electronic Engineering and BBA in Finance)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
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)	9-10												
ELEC	2600	Probability and Random Processes in Engineering	4												
ELEC	2600H	Honors Probability and Random Processes in Engineering	4	3		3		3						9	
MATH	2011	Introduction to Multivariable Calculus	3												
MATH	2111	Matrix Algebra and Applications	3												
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: COMP1021 OR COMP1022P													
COMP	1021	Introduction to Computer Science	3		3									3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4			4								4	
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Note: PHYS1114 OR PHYS1314													
PHYS	1114	General Physics II	3		3									3	
PHYS	1314	Honors General Physics II	3												
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)									0	
		Required credits for Engineering Fundamental Courses	32-37											31	
Major Required Courses and Electives															
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	A System View of Communications: from Signals to Packets	4				4							4	
		Note: ELEC2100 OR ELEC2100H													
ELEC	2100	Signals and Systems	4							4				4	
ELEC	2100H	Honors Signals and Systems	4												
ELEC	2350	Introduction to Computer Organization and Design	4							4				4	
ELEC	2400	Electronic Circuits	4						4					4	
ELEC	2910	Academic and Professional Development I	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	6												
ELEC	4901	Final Year Thesis	6									3	3	6	
ELEC	2991	Industrial Experience (Electronic Engineering)	0												
ELEC	4910	Co-op Program	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4031	Technical Communication II for ECE & CPEG	3									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				3		3		6	3	6	21	
		Required credits for Major Requirements Courses and Electives	50											50	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON2103 OR ECON2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON2123 OR ECON3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2						2					2	
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						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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3								3			3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3												
ACCT	3020	Financial Accounting II	3							3				3	
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3												
ISOM	3400	Python Programming for Business Analytics	3		(3)									0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9									3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3				3	6	6	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	20	18	20	18	15	15		
				181##											

<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

IEFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in Finance)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Industrial Engineering and Engineering Management															
Major Requirements															
Engineering Fundamental Courses															
COMP COMP COMP	1021 1022P 2011	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++	3-4 3 3 4	3										3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM PHYS PHYS	1010 1020 1112 1312	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA General Chemistry IB General Physics I with Calculus Honors General Physics I	3 3 3 3	3										3	
LANG	2030	Technical Communication I	3					3						3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)										0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA IEDA	1990 1991	Note: IEDA1990 OR IEDA1991 Industrial Training Industrial Experience	0 0			0*	0^							0	
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by ISOM2500
IEDA	3010	Presciptive Analytics	3					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	
IEDA	4100	Integrated Production Systems	3								3			3	This course will also be used to substitute ISOM 2700
IEDA	4130	System Simulation	3								3			3	
IEDA IEDA	4901 4960	Note: IEDA4901 OR IEDA4990 Final Year Thesis Industrial Engineering and Engineering Management Final Year Project	6 6									3	3	6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0	0	0	0	0	0	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3			3								3	
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3									3		3	
IEDA		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			6	3			3		3	6	21	
		Required credits for Major Requirements Courses and Electives	57											54	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3			(3)								0	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 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
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	This course will also be used to substitute IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 4100
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2						2					2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2									2		2	
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				3	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											33	
Major Requirements															
Major Required Courses and Electives															
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	
ACCT ACCT ACCT	3010 3020 3030	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3-6 3 3 3							3				3	
ISOM/COMP ISOM ISOM COMP	3230 3400 1022P	Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P Business Applications Programming Python Programming for Business Analytics Introduction to Computing with Java	3 3 3 3	(3)										0	DDP students should take COMP 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								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	6				6	6	6			30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	18	17	18	18	14	12		
				169##											
						<< Declaration of BEng major		***<< Declaration of BBA major***							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

MEFINA **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Mechanical Engineering and BBA in Finance)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Mechanical Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
		Note: MATH2111 OR MATH2350 OR MATH2351													
MATH	2111	Matrix Algebra and Applications	3							3				3	
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3		3									3	
PHYS	1312	Honors General Physics I	3												
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)									0	
		Required credits for Engineering Fundamental Courses	22-26											21	
Major Required Courses and Electives															
MECH	1990	Industrial Training	0			0*	0^							0	
MECH	2020	Statics and Dynamics	3			3								3	
MECH	2040	Solid Mechanics I	3						3					3	
MECH	2210	Fluid Mechanics	3						3					3	
MECH	2310	Thermodynamics	3			3								3	
MECH	2410	Engineering Materials I	3				3							3	
MECH	2520	Design and Manufacturing I	3				3							3	
MECH	2907	Mechatronic Design and Prototyping	3						3					3	
MECH	3030	Mechanisms of Machinery	3								3			3	
		Note: MECH3300 OR MECH3420 OR MECH3520	3												
MECH	3300	Energy Conversion	3							3				3	
MECH	3420	Engineering Materials II	3												
MECH	3520	Design and Manufacturing II	3												
MECH	3310	Heat Transfer	3								3			3	
MECH	3610	Control Principles	3					3						3	
MECH	3630	Electrical Technology	3						3					3	
MECH	3830	Laboratory	3								3			3	
MECH	4900	Final Year Design Project	6									3	3	6	
ELEC	2420	Basic Electronics	3			3								3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4034	Technical Communication II for Mechanical and Areospace Engineering	3								3			3	
		Required credits for Major Requirements Courses and Electives	51											51	
BBA in Finance															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113	3												
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123	3												
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2									2		2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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				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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3								3			3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6												
ACCT	3010	Financial Accounting I	3							3				3	
ACCT	3020	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM/COMP		Note: ISOM 3230 OR ISOM 3400 OR COMP 1022P	3												
ISOM	3230	Business Applications Programming	3												
ISOM	3400	Python Programming for Business Analytics	3	(3)										0	DDP students should take COMP 1022P to satisfy the requirements of both BEng and BBA degrees
COMP	1022P	Introduction to Computing with Java	3												
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											22	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	6					3		6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	18	18	18	18	14	14		
				172##											

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

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

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												
Program:		**Dual Degree Program (BEng in Bioengineering and BBA in Economics)**														
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Bioengineering															
Major Requirements															
Engineering Fundamental Courses															
COMP COMP COMP COMP	1021 1022P 1029P 2011	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++	3-5 3 3 1 4		3									3	The course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM	1010 1020	Note: CHEM1010 OR CHEM 1020 General Chemistry IA General Chemistry IB	3 3	3										3	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
LANG	2030	Technical Communication I	3				3							3	
LIFS	1901	General Biology I	3	3										3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3 3	3										3	
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)									0	
		Required credits for Engineering Fundamental Courses	23-29											22	
Major Required Courses and Electives															
BIEN CENG	1010 1000	Note: BIEN 1010 OR CENG 1000 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering	3 3		3									3	
BIEN	2310	Modeling for Chemical and Biological Engineering	3			3								3	
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3					3	
BIEN	2610	Chemical Biology for Engineers	3			3								3	
BIEN	2990	Academic and Professional Development I	1			1								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				3	
BIEN	3910	Bioengineering Laboratory	4							4				4	
BIEN BIEN BIEN	4920 4930 4940	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 Bioengineering Capstone Design Bioengineering Thesis Research Bioengineering Industrial Project	6 6 6									3	3	6	
BIEN	4990	Academic and Professional Development II	1									1		1	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	3230	Chemical and Biological Reaction Engineering	3							3				3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LIFS MATH	3150 2411	Note: LIFS 3150 OR MATH 2411 Biostatistics Applied Statistics	3-4 3 4			3								3	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
SSCI/SENG		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)	15								6	3	6	15	
		Required credits for Major Required Courses and Electives	60-61											60	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3			3								3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/1029P/2011
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by LIFS 3150/MATH 2411
ISOM	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by BIEN3320
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2				2							2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2					2						2	
SBMT	1111	Business Student Induction	0	-	-	-	-	-	-	-	-	-	-	0	Substituted by ENGG 1010
LABU	2040	Business Case Analyses	3					3						3	
LABU	2060	Effective Communication in Business	3						3					3	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											34	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3		3		6	6	3	6		3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				19	18	19	20	18	19	17	16	17	15		
				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 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BTECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Science and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BSc in Biotechnology and BBA in General Business Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BSc in Biotechnology															
School Requirements															
SCIE	1000	Science School Induction	0	0	0									0	
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3			3								3	This course will be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3					3						3	
SSCI		~~Science Foundation courses [8 courses from the specified elective list. Students should~~ take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laboratory course.]	22-25												
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3												
CHEM	1050	Laboratory for General Chemistry I	1												
CHEM	1055	Laboratory for General Chemistry II	1												
LIFS	1030	Environmental Science	3												
LIFS	1901@	General Biology I@	3												
LIFS	1902@	General Biology II@	3												LIFS1901 & LIFS1902 are Major Pre-requisite
LIFS	1903	Laboratory for General Biology I	1												
LIFS	1904	Laboratory for General Biology II	1												
LIFS	1930	Nature of Life Sciences	3												Students are recommended to take CHEM1010, CHEM1030, LIFS1903 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
LIFS	2210	Biochemistry I	3	10	3	6	3							22	
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2023	Multivariable Calculus	4												
MATH	2121	Linear Algebra	4												
MATH	2131	Honors in Linear and Abstract Algebra I	4												
PHY	1001	Physics and the Modern Society	3												
PHY	1111	General Physics I	3												
PHY	1112	General Physics I with Calculus	3												
PHY	1113	Laboratory for General Physics I	1												
PHY	1114	General Physics II	3												
PHY	1115	Laboratory for General Physics II	1												
PHY	1212	~~Honors General Physics I~~	3												
		Required credits for School / Major Pre-requisite Requirements	25-29											28	
Major Requirements															
Major Required Courses and Electives															
LIFS	1903	Laboratory for General Biology I	1	(1)										0	
LIFS	1904	Laboratory for General Biology II	1		1									1	
LIFS	2040	Cell Biology	3				3							3	
LIFS	2070	Introduction to Biotechnology	3			3								3	
LIFS	2080	Plant Biology	3				3							3	
LIFS	2210	Biochemistry I	3			(3)								0	
LIFS	3060	Microbiology	3						3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3					3						3	
LIFS	3140	General Genetics	4							4				4	
LIFS	4150	Plant Biotechnology	3									3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3							3				3	
		Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) [Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]	3-7												
LIFS	4963	Biotechnology Capstone Project	3									[3]	3	3	
LIFS	4973	Biotechnology Project Research I	3												
LIFS	4983	Biotechnology Project Research II	4												
SCIE	4500	IRE Research Project II	3												
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	(3)										0	
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3		(3)									0	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
CHEM	1055	Laboratory for General Chemistry II	1		1									1	
		Note: CHEM 2110 OR CHEM 2311													
CHEM	2110	Organic Chemistry I	3					3						3	
CHEM	2311	Analytical Chemistry	3												
		Note: CHEM2155 OR CHEM2355													
CHEM	2155	Fundamental Organic Chemistry Laboratory	1						1					1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
CENG	1600	Biotechnology and Its Business Opportunities	3							3				3	
LANG	3024	Science Communication in English (Life Science)	3										3	3	
LIFS/BIPH/BTEC/BIEN/ CENG		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. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	15-18						3		3	6	3	15	
		Required credits for Major Required Courses and Electives	62-70											56	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1							1				1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2		2									2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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		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												
MATH	1012	Calculus IA	4	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3				3	6	3	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				17	19	18	19	19	20	18	19	19	17		
				185##											

<< Declaration of BEng major

<< Declaration of BBA 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.

--- 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CEECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Chemical Engineering and BBA in Economics)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Chemical Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	General Physics I	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	3										3	
CENG	1500	A First Course on Materials Science and Applications	3												
		Note: CENG1600 OR CENG1700 OR BIEN1010													
CENG	1600	Biotechnology and Its Business Opportunities	3		3									3	
CENG	1700	Introduction to Environmental Engineering	3												
BIEN	1010	Introduction to Biomedical Engineering	3												
CENG	1010	Academic and Professional Development I	0			0								0	
CENG	1980	Industrial Training	0				0	0	0	0				0	
CENG	2110	Process and Product Design Principles	3			3								3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	2220	Process Fluid Mechanics	3				3							3	
CENG	2310	Modeling for Chemical and Biological Engineering	3			3								3	
CENG	3110	Process Dynamics and Control	3						3					3	
CENG	3150	Integrated Chemical Process & Product Design	5						5					5	
CENG	3210	Separation Processes	3					3						3	
CENG	3220	Heat and Mass Transfer	3					3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4			4	
CENG	4020	Academic and Professional Development II	0									0		0	
		Note: CENG4920 OR CENG4930 OR CENG4940													
CENG	4920	Chemical Engineering Capstone Design	6												
CENG	4930	Chemical Engineering Thesis Research	6									3	3	6	
CENG	4940	Chemical Engineering Industrial Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM	1050	Laboratory for General Chemistry I	1		1									1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3							3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1				1							1	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
		Note: BIEN2410 OR BIEN2610 OR LIFS1901													
BIEN	2410	Cellular and Systems Physiology for Engineers	3				3							3	
BIEN	2610	Chemical Biology for Engineers	3												
LIFS	1901	General Biology I	3												
SENG/SSCI/ENVR		CENG Elective (12 credits from specified elective list)	12					3	3	3	3			12	
		Required credits for Major Requirements Courses and Electives	68											68	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3							3				3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												ECON 2103/2113/2123 is a major prerequisite
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1			1								1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1			1								1	
ISOM	2700	Operations Management	3							3				3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2						2					2	
MGMT	2110	Organizational Behavior	3						3					3	
MGMT	2130	Business Ethics and Social Responsibility	2									2		2	
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	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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	45-46											39	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30					3		3	9	6	9	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	19	20	19	19	20	19	20	18	18		
				190##											

<< 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 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 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

CIECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Civil Engineering and BBA in Economics)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Civil Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3		3									3	This course will be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM 1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
CIVL	3210	Introduction to Construction Management	3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3610	Traffic and Transportation Engineering	3						3					3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
		Note: CIVL 4910 OR CIVL 4920													
CIVL	4910	Civil and Environmental Engineering Final Year Project	6									3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6												
CIVL	4950	Civil Engineering Capstone Design Project	3									3		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/SENG		CIVL: Any CIVL courses at 4000-level or above except CIVL 4230	9								3	3	3	9	
		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															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												ECON 2103/2113/2123 is a major prerequisite
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1						1					1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3	3										3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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				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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3				3		9	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	18	20	20	19	19	19	17		
				188##											
						<< Declaration of BEng major		*<< Declaration of BBA major*							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

COECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Computer Science and BBA in Economics)**													
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**
						<< Declaration of BEng major		*<< Declaration of BBA major*							
BEng in Computer Science															
Major Requirements															
Engineering Fundamental Courses															
COMP COMP	1021 1022P	Note: COMP1021 OR COMP1022P Introduction to Computer Science Introduction to Computing with Java	3 3	3										3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM CHEM LIFS PHYS PHYS PHYS	1004 1010 1020 1901 1001 1112 1312	Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312 Chemistry in Everyday Life General Chemistry IA General Chemistry IB General Biology I Physics and the Modern Society General Physics I with Calculus Honors General Physics I	3 3 3 3 3 3 3	3										3	
LANG	2030	Technical Communication I	3					3						3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2111	Matrix Algebra and Applications	3			3								3	
SENG		Engineering Introduction course (COMP students may also use COMP1022P or COMP1022Q to fulfill this requirement)	3-4	(3)										0	
		Required credits for Engineering Fundamental Courses	19-23											18	
Major Required Courses and Electives															
COMP COMP COMP	2011 2012 2012H	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 5			4	4							8	
COMP	2611	Computer Organization	4						4					4	
COMP COMP	2711 2711H	Note: COMP2711 OR COMP2711H Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Science	4 4			4								4	
COMP COMP	3111 3111H	Note: COMP3111 OR COMP3111H Software Engineering Honors Software Engineering	4 4					4						4	
COMP	3511	Operating Systems	3							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	
COMP	4900	Note: Students are required to take COMP4900 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 COMP COMP COMP	1991 4981 4981H 4910	Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910 Industrial Experience Final Year Project Final Year Thesis Co-op FYP Program	6 0 6 6 6									3	3	6	
ELEC IEDA IEDA MATH MATH MATH	2600 2520 2540 2411 2421 2431	Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431 Probability and Random Processes in Engineering Probability for Engineers Statistics for Engineers Applied Statistics Probability Honors Probability	3-4 4 3 3 4 4 4			4								4	Students should take MATH 2411 which will also be used to substitute ISOM 2500.
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Technical Communication II for CSE & CPEG	3									3		3	
COMP		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.)	15							3	6	3	3	15	
COMP		COMP Elective (Any 1 course offered under COMP)	3										3	3	
		Required credits for Major Requirements Courses and Electives	53-58											57	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3			3								3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by MATH 2411
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2							2				2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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					3	
MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3		3		6	6	6			30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	20	18	20	18	16	13	14		
				173##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CPECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Computer Engineering and BBA in Economics)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Computer Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	2030	Technical Communication I	3				3							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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
MATH	2111	Matrix Algebra and Applications	3					3						3	
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
PHYS	1114	Note: PHYS1114 OR PHYS1314 General Physics II	3						3					3	
PHYS	1314	Honors General Physics II	3												
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)										0	
		Required credits for Engineering Fundamental Courses	25-29											24	
Major Required Courses and Electives															
CPEG	2930	Academic and Professional Development I	0			0	0							0	
CPEG	3930	Academic and Professional Development II	0					0	0					0	
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4			4		4						8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Note: COMP2611 OR ELEC2350 Computer Organization	4 4				4							4	
ELEC	2350	Introduction to Computer Organization and Design	4												
COMP	2711	Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science	4 4							4				4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
ELEC	2600	Probability and Random Processes in Engineering	4												
COMP	3511	Operating Systems	3								3			3	
COMP	4521	Note: COMP4521 OR COMP4611 OR ELEC 4310 Mobile Application Develoepment	3-4 3											3	
COMP	4611	Design and Analysis of Computer Architectures	3									3			
ELEC	4310	Embedded System Design	4												
ELEC	4320	FPGA-based Design: From Theory to Practice	3												
ELEC	4330	Mobile Embedded Systems: Hardware Platform, Software Development, and Applicatio	3												
CPEG	1971	Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) AND CPEG1971] OR CPEG4910 Industrial Experience	6 0											6	
CPEG	4901	Computer Engineering Final Year Project in COMP	6									3	3		
CPEG	4902	Computer Engineering Final Year Thesis in COMP	6												
CPEG	4911	Computer Engineering Final Year Project in ELEC	6												
CPEG	4912	Computer Engineering Final Year Thesis in ELEC	6												
CPEG	4910	Co-op Program	6												
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets	8 4				4		4					8	
ELEC	2100	Signals and Systems	4												
ELEC	2400	Electronic Circuits	4												
ELEC	3300	Introduction to Embedded Systems	4								4			4	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Note: LANG4030 OR LANG4031 Technical Communication II for CSE & CPEG	3									3		3	
LANG	4031	Technical Communication II for ECE & CPEG	3												
COMP/ELEC		Area Courses (At least 4 courses from the specified elective list , of which at least 2 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					4	4	4	15	
		Required credits for Major Requirements Courses and Electives	59-63											62	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2							2				2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2								2			2	
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					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 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3	3		3		9			6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	20	19	20	19	20	17	16		
				187##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CVECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in Economics)**													**Remarks**
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	
						<< Declaration of BEng major		*<< Declaration of BBA major*							
BEng in Civil and Environmental Engineering															
Major Requirements															
Engineering Fundamental Courses															
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									3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM	1010 1020	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA General Chemistry IB	3 3	3										3	
LANG	2030	Technical Communication I	3					3						3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 I	4-7 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3 3	3										3	
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
CIVL CIVL	3210 3610	Note: CIVL3210 OR CIVL3610 Introduction to Construction Management Traffic and Transportation Engineering	3 3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3420	Water and Wastewater Engineering	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
CIVL CIVL	4910 4920	Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project Civil and Environmental Engineering Final Year Thesis	6 6									3	3	6	
CIVL	4950	Civil Engineering Capstone Design Project	3									3		3	
CIVL CIVL CIVL	4450 5450 5460	Note: CIVL4450 OR CIVL 5450 OR CIVL5460 Carbon Footprint Analysis and Reduction Hazardous Waste Treatment and Site Remediation Landfill Engineering and Design	3 3 3								3			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/SENG		CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted Electives".] 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)	6									3	3	6	
		Required credits for Major Requirements Courses and Electives	66											66	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3			3								3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1						1					1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3	3										3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Substituted by ENGG 1010
LABU	2040	Business Case Analyses	3										3	3	
LABU	2060	Effective Communication in Business	3							3				3	
MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3				3		9	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	19	20	19	19	19	17		
				188##											
						<< Declaration of BEng major		*<< Declaration of BBA major*							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

DAECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management														
Program:		**Dual Degree Program (BEng in Decision Analytics and BBA in Economics)**														
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Decision Analytics															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312													
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3	3										3	
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)									0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
		Note: IEDA1990 OR IEDA1991	0												
IEDA	1990	Industrial Training	0			0	0	0	0	0	0	0	0	0	
IEDA	1991	Industrial Experience	0												
IEDA	2520	Probaility for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Prescriptive Analytics	3					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	
IEDA	3560	Predictive Analytics	3						3					3	
		Note: IEDA4901 OR IEDA4920	6												
IEDA	4901	Final Year Thesis	6									3	3	6	
IEDA	4920	Decision Analytics Final Year Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
		Note: ECON2103 OR ECON2113	3												
ECON	2103	Principles of Microeconomics	3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON	2113	Microeconomics	3												
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3						3					3	
IEDA		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the same area)	15						3	6	3	3		15	
		Required credits for Major Required Courses and Electives	48											48	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3									3		3	
		Note: ECON 2103 OR ECON 2113	3												
ECON	2103	Principles of Microeconomics	3		(3)									0	ECON 2103/2113/2123 is a major prerequisite
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123	3												
ECON	2123	Macroeconomics	3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3								3			3	
MARK	2120	Marketing Management	3			3								3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3			3								3	
MGMT	2130	Business Ethics and Social Responsibility	2							2				2	
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				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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											33	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	29											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	3		3			3	6		6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	17	16	18	16	13	12		
				164##											

<< 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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

EEECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Electronic Engineering and BBA in Economics)**													
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**
						<< Declaration of BEng major		*<< Declaration of BBA major*							
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)	9-10												
ELEC	2600	Probability and Random Processes in Engineering	4												
ELEC	2600H	Honors Probability and Random Processes in Engineering	4	3		3		3						9	
MATH	2011	Introduction to Multivariable Calculus	3												
MATH	2111	Matrix Algebra and Applications	3												
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: COMP1021 OR COMP1022P	3												
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4			4								4	
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
		Note: PHYS1112 OR PHYS1312	3												
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Note: PHYS1114 OR PHYS1314	3												
PHYS	1114	General Physics II	3		3									3	
PHYS	1314	Honors General Physics II	3												
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)									0	
		Required credits for Engineering Fundamental Courses	32-37											31	
Major Required Courses and Electives															
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	A System View of Communications: from Signals to Packets	4				4							4	
		Note: ELEC2100 OR ELEC2100H	4												
ELEC	2100	Signals and Systems	4							4				4	
ELEC	2100H	Honors Signals and Systems	4												
ELEC	2350	Introduction to Computer Organization and Design	4							4				4	
ELEC	2400	Electronic Circuits	4						4					4	
ELEC	2910	Academic and Professional Development I	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	6									3	3	6	
ELEC	4901	Final Year Thesis	6												
ELEC	2991	Industrial Experience (Electronic Engineering)	0												
ELEC	4910	Co-op Program	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4031	Technical Communication II for ECE & CPEG	3									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				3		3		6	3	6	21	
		Required credits for Major Requirements Courses and Electives	50											50	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON2103 OR ECON2113	3												
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												ECON 2103/2113/2123 is a major prerequisite
		Note: ECON2123 OR ECON3123	3												
ECON	2123	Macroeconomics	3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2								2			2	
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						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	(3)											
MATH	1012	Calculus IA	4											0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6				3	3	6	6	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	20	20	18	18	16	15		
				182##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

IEECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in Economics)**													
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
						<< Declaration of BEng major		*<< Declaration of BBA major*							
BEng in Industrial Engineering and Engineering Management															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	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												
MATH	1012	Calculus IA	4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)										0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
		Note: IEDA1990 OR IEDA1991													
IEDA	1990	Industrial Training	0			0*	0^							0	
IEDA	1991	Industrial Experience	0												
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Presciptive Analytics	3					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	
IEDA	4100	Integrated Production Systems	3								3			3	This course will also be used to substitute ISOM 2700
IEDA	4130	System Simulation	3								3			3	
		Note: IEDA4901 OR IEDA4990													
IEDA	4901	Final Year Thesis	6									3	3	6	
IEDA	4960	Industrial Engineering and Engineering Management Final Year Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0	0	0	0	0	0	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON	2113	Microeconomics	3												
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3									3		3	
IEDA		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	3	3		3		3	6	21	
		Required credits for Major Requirements Courses and Electives	57											57	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		(3)									0	ECON 2103/2113/2123 is a major prerequisite
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 4100
MARK	2120	Marketing Management	3			3								3	
MGMT	2010	Business Ethics and the Individual	2						2					2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2									2		2	
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				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 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											30	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3	3			3	9	6			30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	17	19	18	19	16	15	12		
				170##											
						<< Declaration of BEng major		*<< Declaration of BBA major*							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

MEECON **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Mechanical Engineering and BBA in Economics)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall << *Declaration of BEng major*	Year 2 Spring	Year 3 Fall << *Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Mechanical Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science	3-4 3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	2030	Technical Communication I	3				3							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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
MATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications	3 3							3				3	
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3 3		3									3	
PHYS	1312	Honors General Physics I	3												
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)									0	
		Required credits for Engineering Fundamental Courses	22-26											21	
Major Required Courses and Electives															
MECH	1990	Industrial Training	0			0*	0^							0	
MECH	2020	Statics and Dynamics	3			3								3	
MECH	2040	Solid Mechanics I	3						3					3	
MECH	2210	Fluid Mechanics	3						3					3	
MECH	2310	Thermodynamics	3			3								3	
MECH	2410	Engineering Materials I	3				3							3	
MECH	2520	Design and Manufacturing I	3				3							3	
MECH	2907	Mechatronic Design and Prototyping	3						3					3	
MECH	3030	Mechanisms of Machinery	3								3			3	
MECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 Energy Conversion	3 3							3				3	
MECH	3420	Engineering Materials II	3												
MECH	3520	Design and Manufacturing II	3												
MECH	3310	Heat Transfer	3								3			3	
MECH	3610	Control Principles	3					3						3	
MECH	3630	Electrical Technology	3						3					3	
MECH	3830	Laboratory	3								3			3	
MECH	4900	Final Year Design Project	6									3	3	6	
ELEC	2420	Basic Electronics	3			3								3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4034	Technical Communication II for Mechanical and Areospace Engineering	3								3			3	
		Required credits for Major Requirements Courses and Electives	51											51	
BBA in Economics															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3 3		3									3	ECON 2103/2113/2123 is a major prerequisite
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3 3			3								3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2									2		2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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				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 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON	4670	Economics Research and Communication	0									0		0	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	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	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	3					6		6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	18	19	19	16	15	14		
				173##											

<< *Declaration of BEng major* | << *Declaration of BBA major*

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BEMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management				<< Declaration of BEng major		<< Declaration of BBA major									
Program:		**Dual Degree Program (BEng in Bioengineering and BBA in Marketing)**		Student's Pathway													
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 Bioengineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P]	3-5												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1029P	Python Programming Bridging Course	1												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
CHEM	1050	Laboratory for General Chemistry I	1	1										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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
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)									0	
		Required credits for Engineering Fundamental Courses	23-29											22	
Major Required Courses and Electives															
		Note: BIEN 1010 OR CENG 1000													
BIEN	1010	Introduction to Biomedical Engineering	3		3									3	
CENG	1000	Introduction to Chemical and Biiological Engineering	3												
BIEN	2310	Modeling for Chemical and Biological Engineering	3			3								3	
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3					3	
BIEN	2610	Chemical Biology for Engineers	3			3								3	
BIEN	2990	Academic and Professional Development I	1			1								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				3	
BIEN	3910	Bioengineering Laboratory	4							4				4	
		Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940													
BIEN	4920	Bioengineering Capstone Design	6									3	3	6	
BIEN	4930	Bioengineering Thesis Research	6												
BIEN	4940	Bioengineering Industrial Project	6												
BIEN	4990	Academic and Professional Development II	1									1		1	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	3230	Chemical and Biological Reaction Engineering	3							3				3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
		Note: LIFS 3150 OR MATH 2411	3-4												
LIFS	3150	Biostatistics	3			3								3	
MATH	2411	Applied Statistics	4												
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
SSCI/SENG		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)	15								6	3	6	15	
		Required credits for Major Required Courses and Electives	60-61											60	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/1029P/2011
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by LIFS 3150/MATH 2411
ISOM	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by BIEN3320
ISOM	2700	Operations Management	3						3					3	
MARK	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						2	
SBMT	1111	Business Student Induction	0	-	-	-	-	-	-	-	-	-	-	0	Substituted by ENGG 1010
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												
MATH	1003	Calculus and Linear Algebra	3												DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											34	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3			3	9	3	3	9			30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				19	18	18	18	18	19	20	19	17	13		
				179##											
						<< 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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BTMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Science and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BSc in Biotechnology 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 *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BSc in Biotechnology															
School Requirements															
SCIE	1000	Science School Induction	0	0	0									0	
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3			3								3	This course will also be used to substitute ISOM 2010
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3					3						3	
SSCI		Science Foundation courses [8 courses from the specified elective list. Students should take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laboratory course.]	22-25												
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3												
CHEM	1050	Laboratory for General Chemistry I	1												
CHEM	1055	Laboratory for General Chemistry II	1												
LIFS	1030	Environmental Science	3												
LIFS	1901@	General Biology I@	3												
LIFS	1902@	General Biology II@	3												LIFS1901 & LIFS1902 are Major Pre-requisite
LIFS	1903	Laboratory for General Biology I	1												
LIFS	1904	Laboratory for General Biology II	1												
LIFS	1930	Nature of Life Sciences	3												Students are recommended to take CHEM1010, CHEM1030, LIFS1903 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
LIFS	2210	Biochemistry I	3	10	3	6	3							22	
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2023	Multivariable Calculus	4												
MATH	2121	Linear Algebra	4												
MATH	2131	Honors in Linear and Abstract Algebra I	4												
PHY	1001	Physics and the Modern Society	3												
PHY	1111	General Physics I	3												
PHY	1112	General Physics I with Calculus	3												
PHY	1113	Laboratory for General Physics I	1												
PHY	1114	General Physics II	3												
PHY	1115	Laboratory for General Physics II	1												
PHY	1212	Honors General Physics I	3												
		Required credits for School / Major Pre-requisite Requirements	25-29											28	
Major Requirements															
Major Required Courses and Electives															
LIFS	1903	Laboratory for General Biology I	1	(1)										0	
LIFS	1904	Laboratory for General Biology II	1		1									1	
LIFS	2040	Cell Biology	3				3							3	
LIFS	2070	Introduction to Biotechnology	3			3								3	
LIFS	2080	Plant Biology	3				3							3	
LIFS	2210	Biochemistry I	3			(3)								0	
LIFS	3060	Microbiology	3						3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3					3						3	
LIFS	3140	General Genetics	4							4				4	
LIFS	4150	Plant Biotechnology	3									3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3							3				3	
		Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) [Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]	3-7												
LIFS	4963	Biotechnology Capstone Project	3									[3]	3	3	
LIFS	4973	Biotechnology Project Research I	3												
LIFS	4983	Biotechnology Project Research II	4												
SCIE	4500	IRE Research Project II	3												
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	(3)										0	
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3		(3)									0	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
CHEM	1055	Laboratory for General Chemistry II	1		1									1	
		Note: CHEM 2110 OR CHEM 2311													
CHEM	2110	Organic Chemistry I	3					3						3	
CHEM	2311	Analytical Chemistry	3												
		Note: CHEM2155 OR CHEM2355													
CHEM	2155	Fundamental Organic Chemistry Laboratory	1						1					1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
CENG	1600	Biotechnology and Its Business Opportunities	3							3				3	
LANG	3024	Science Communication in English (Life Science)	3										3	3	
LIFS/BIPH/BTEC/BIEN/ CENG		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. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	15-18						3		3	6	3	15	
		Required credits for Major Required Courses and Electives	62-70											56	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1							1				1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	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				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		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												
MATH	1012	Calculus IA	4	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3			3	3	3	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				19	17	18	19	19	20	20	19	19	16		
				186##											

<< Declaration of BEng major *<< Declaration of BBA 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.

--- 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CEMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Chemical 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 *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Chemical Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	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	3										3	
CENG	1500	A First Course on Materials Science and Applications	3												
		Note: CENG1600 OR CENG1700 OR BIEN1010													
CENG	1600	Biotechnology and Its Business Opportunities	3		3									3	
CENG	1700	Introduction to Environmental Engineering	3												
BIEN	1010	Introduction to Biomedical Engineering	3												
CENG	1010	Academic and Professional Development I	0			0								0	
CENG	1980	Industrial Training	0				0	0	0	0				0	
CENG	2110	Process and Product Design Principles	3			3								3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	2220	Process Fluid Mechanics	3				3							3	
CENG	2310	Modeling for Chemical and Biological Engineering	3			3								3	
CENG	3110	Process Dynamics and Control	3						3					3	
CENG	3150	Integrated Chemical Process & Product Design	5						5					5	
CENG	3210	Separation Processes	3					3						3	
CENG	3220	Heat and Mass Transfer	3					3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4			4	
CENG	4020	Academic and Professional Development II	0									0		0	
		Note: CENG4920 OR CENG4930 OR CENG4940													
CENG	4920	Chemical Engineering Capstone Design	6									3	3	6	
CENG	4930	Chemical Engineering Thesis Research	6												
CENG	4940	Chemical Engineering Industrial Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM	1050	Laboratory for General Chemistry I	1		1									1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3							3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1				1							1	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
		Note: BIEN2410 OR BIEN2610 OR LIFS1901													
BIEN	2410	Cellular and Systems Physiology for Engineers	3				3							3	
BIEN	2610	Chemical Biology for Engineers	3												
LIFS	1901	General Biology I	3												
SENG/SSCI/ENVR		CENG Elective (12 credits from specified elective list)	12					3	3	3	3			12	
		Required credits for Major Requirements Courses and Electives	68											68	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3							3				3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1			1								1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1			1								1	
ISOM	2700	Operations Management	3									3		3	
MARK	2120	Marketing Management	3		3									3	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	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	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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	45-46											39	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30				3		3	3	9	6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	19	20	19	19	20	19	20	19	18		
				191##											
						<< Declaration of BEng major		***<< Declaration of BBA major***							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CIMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student'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 *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Civil Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM 1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
CIVL	3210	Introduction to Construction Management	3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3610	Traffic and Transportation Engineering	3						3					3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
		Note: CIVL 4910 OR CIVL 4920	6												
CIVL	4910	Civil and Environmental Engineering Final Year Project	6									3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Thesis													
CIVL	4950	Civil Engineering Capstone Design Project	3									3		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/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								3	3	3	9	
		Required credits for Major Requirements Courses and Electives	66											66	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3						3					3	
MARK	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	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				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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6						9	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	20	19	19	19	19	19	18		
				189##											

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

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

COMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Computer Science 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 *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Computer Science															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1004	Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312 Chemistry in Everyday Life	3	3										3	
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3												
LIFS	1901	General Biology I	3												
PHYS	1001	Physics and the Modern Society	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	2030	Technical Communication I	3					3						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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2111	Matrix Algebra and Applications	3			3								3	
SENG		Engineering Introduction course (COMP students may also use COMP1022P or COMP1022Q to fulfill this requirement)	3-4	(3)										0	
		Required credits for Engineering Fundamental Courses	19-23											18	
Major Required Courses and Electives															
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4			4	4							8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Computer Organization	4						4					4	
COMP	2711	Note: COMP2711 OR COMP2711H Discrete Mathematical Tools for Computer Science	4			4								4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
COMP	3111	Note: COMP3111 OR COMP3111H Software Engineering	4					4						4	
COMP	3111H	Honors Software Engineering	4												
COMP	3511	Operating Systems	3							3				3	
COMP	3711	Note: COMP3711 OR COMP3711H Design and Analysis of Algorithms	3-4 3					3						3	
COMP	3711H	Honors Design and Analysis of Algorithms	4												
COMP	4900	Note: Students are required to take COMP4900 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	1991	Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910 Industrial Experience	6 0											6	
COMP	4981	Final Year Project	6									3	3		
COMP	4981H	Final Year Thesis	6												
COMP	4910	Co-op FYP Program	6												
ELEC	2600	Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431 Probability and Random Processes in Engineering	3-4 4											4	Students should take MATH 2411 which will also be used to substitute ISOM 2500.
IEDA	2520	Probability for Engineers	3												
IEDA	2540	Statistics for Engineers	3			4									
MATH	2411	Applied Statistics	4												
MATH	2421	Probability	4												
MATH	2431	Honors Probability	4												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Technical Communication II for CSE & CPEG	3									3		3	
COMP		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.)	15							3	6	3	3	15	
COMP		COMP Elective (Any 1 course offered under COMP)	3										3	3	
		Required credits for Major Requirements Courses and Electives	53-58											57	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by MATH 2411
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3						3					3	
MARK	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				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					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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3		3		3	6	9			30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	19	18	20	18	19	13	13		
				174##											

<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CPMARK 2020-21 Intake

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Computer 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**
						<< Declaration of BEng major		***<< Declaration of BBA major***							
BEng in Computer Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP COMP	1021 1022P	Note: COMP1021 OR COMP1022P Introduction to Computer Science Introduction to Computing with Java	3 3	3										3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	2030	Technical Communication I	3				3							3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
MATH	2111	Matrix Algebra and Applications	3					3						3	
PHYS PHYS	1112 1312	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus Honors General Physics I	3 3	3										3	
PHYS PHYS	1114 1314	Note: PHYS1114 OR PHYS1314 General Physics II Honors General Physics II	3 3						3					3	
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)										0	
		Required credits for Engineering Fundamental Courses	25-29											24	
Major Required Courses and Electives															
CPEG	2930	Academic and Professional Development I	0			0	0							0	
CPEG	3930	Academic and Professional Development II	0					0	0					0	
COMP COMP COMP	2011 2012 2012H	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 5			4		4						8	
COMP ELEC	2611 2350	Note: COMP2611 OR ELEC2350 Computer Organization Introduction to Computer Organization and Design	4 4 4				4							4	
COMP COMP COMP	2711 2711H 2600	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	4 4 4 4							4				4	
COMP	3511	Operating Systems	3								3			3	
COMP COMP ELEC ELEC ELEC	4521 4611 4310 4320 4330	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 Applications	3-4 3 3 4 3 3									3		3	
CPEG CPEG CPEG CPEG CPEG CPEG	1971 4901 4902 4911 4912 4910	Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) 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 Co-op Program	6 0 6 6 6 6 6									3	3	6	
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC ELEC ELEC	1200 2100 2400	Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets Signals and Systems Electronic Circuits	8 4 4 4				4		4					8	
ELEC	3300	Introduction to Embedded Systems	4								4			4	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG LANG	4030 4031	Note: LANG4030 OR LANG4031 Technical Communication II for CSE & CPEG Technical Communication II for ECE & CPEG	3 3									3		3	
COMP/ELEC		Area Courses (At least 4 courses from the specified elective list , of which at least 2 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					4	4	4	15	
		Required credits for Major Requirements Courses and Electives	59-63											62	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3		3									3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3					3						3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	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			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					3	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3	3				9	3		6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	20	19	20	19	20	17	17		
				188##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CVMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Civil and Environmental 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 *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Civil and Environmental Engineering															
Major Requirements															
Engineering Fundamental Courses															
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									3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM	1010 1020	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA General Chemistry IB	3 3	3										3	
LANG	2030	Technical Communication I	3					3						3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3 3	3										3	
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
CIVL CIVL	3210 3610	Note: CIVL3210 OR CIVL3610 Introduction to Construction Management Traffic and Transportation Engineering	3 3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3420	Water and Wastewater Engineering	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
CIVL CIVL	4910 4920	Note: CIVL 4910 OR CIVL 4920 Civil and Environmental Engineering Final Year Project Civil and Environmental Engineering Final Year Thesis	6 6									3	3	6	
CIVL	4950	Civil Engineering Capstone Design Project	3									3		3	
CIVL CIVL CIVL	4450 5450 5460	Note: CIVL4450 OR CIVL 5450 OR CIVL5460 Carbon Footprint Analysis and Reduction Hazardous Waste Treatment and Site Remediation Landfill Engineering and Design	3 3 3								3			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/SENG		CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted Electives".] 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)	6									3	3	6	
		Required credits for Major Requirements Courses and Electives	66											66	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3			3								3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3					3						3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1						1					1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	MARK 2120 is a major pre-requisite
MGMT	2110	Organizational Behavior	3	3										3	
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Substituted by ENGG 1010
LABU	2040	Business Case Analyses	3										3	3	
LABU	2060	Effective Communication in Business	3							3				3	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3					9	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	19	20	19	19	19	18		
				189##											

<< Declaration of BEng major

<< Declaration of BBA major

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

DAMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management														
Program:		**Dual Degree Program (BEng in Decision Analytics 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 *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Decision Analytics															
Major Requirements															
Engineering Fundamental Courses															
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									3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM PHYS PHYS	1010 1020 1112 1312	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA General Chemistry IB General Physics I with Calculus Honors General Physics I	 3 3 3 3	3										3	
LANG	2030	Technical Communication I	3				3							3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)									0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA IEDA	1990 1991	Note: IEDA1990 OR IEDA1991 Industrial Training Industrial Experience	 0 0			0	0	0	0	0	0	0	0	0	
IEDA	2520	Probaility for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Prescriptive Analytics	3					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	
IEDA	3560	Predictive Analytics	3						3					3	
IEDA IEDA	4901 4920	Note: IEDA4901 OR IEDA4920 Final Year Thesis Decision Analytics Final Year Project	 6 6									3	3	6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
ECON ECON	2103 2113	Note: ECON2103 OR ECON2113 Principles of Microeconomics Microeconomics	 3 3			3								3	
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3						3					3	
IEDA		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the same area)	15						3	6	3	3		15	
		Required credits for Major Required Courses and Electives	48											48	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3							3				3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	 3 3			(3)								0	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	 3 3									3		3	
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3								3			3	
MARK	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				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			3	
MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											33	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	6		3			3	3		6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	17	16	18	16	13	13		
				165##											

<< 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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

EEMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Electronic 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**
						<< Declaration of BEng major		*<< Declaration of BBA major*							
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)	9-10												
ELEC	2600	Probability and Random Processes in Engineering	4												
ELEC	2600H	Honors Probability and Random Processes in Engineering	4	3		3		3						9	
MATH	2011	Introduction to Multivariable Calculus	3												
MATH	2111	Matrix Algebra and Applications	3												
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: COMP1021 OR COMP1022P													
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4			4								4	
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3	3	3									6	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Note: PHYS1114 OR PHYS1314													
PHYS	1114	General Physics II	3		3									3	
PHYS	1314	Honors General Physics II	3												
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)									0	
		Required credits for Engineering Fundamental Courses	32-37											31	
Major Required Courses and Electives															
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	A System View of Communications: from Signals to Packets	4				4							4	
		Note: ELEC2100 OR ELEC2100H													
ELEC	2100	Signals and Systems	4							4				4	
ELEC	2100H	Honors Signals and Systems	4												
ELEC	2350	Introduction to Computer Organization and Design	4							4				4	
ELEC	2400	Electronic Circuits	4						4					4	
ELEC	2910	Academic and Professional Development I	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	6												
ELEC	4901	Final Year Thesis	6									3	3	6	
ELEC	2991	Industrial Experience (Electronic Engineering)	0												
ELEC	4910	Co-op Program	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4031	Technical Communication II for ECE & CPEG	3									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				3		3		6	3	6	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					3	
		Note: ECON2103 OR ECON2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON2123 OR ECON3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	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			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						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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3				3	6	6	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	20	20	18	18	16	16		
				183##											
						<< 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

IEMARK **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Industrial Engineering and Engineering Management 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 *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Industrial Engineering and Engineering Management															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	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												
MATH	1012	Calculus IA	4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)										0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
		Note: IEDA1990 OR IEDA1991													
IEDA	1990	Industrial Training	0			0*	0^							0	
IEDA	1991	Industrial Experience	0												
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Presciptive Analytics	3					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	
IEDA	4100	Integrated Production Systems	3								3			3	This course will also be used to substitute ISOM 2700
IEDA	4130	System Simulation	3								3			3	
		Note: IEDA4901 OR IEDA4990	6												
IEDA	4901	Final Year Thesis	6									3	3	6	
IEDA	4960	Industrial 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													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3									3		3	
IEDA		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			6	3			3		3	6	21	
		Required credits for Major Requirements Courses and Electives	57											57	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			(3)								0	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3				3							3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 4100
MARK	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		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				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
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											30	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	6				6	6	6			30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	18	19	18	16	15	13		
				171##											
						<< Declaration of BEng major		***<< Declaration of BBA major***							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

MEMARK 2020-21 Intake

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Mechanical Engineering and BBA in Marketing)**													
						<< Declaration of BEng major		*<< Declaration of BBA major*							
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 Mechanical Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
		Note: MATH2111 OR MATH2350 OR MATH2351													
MATH	2111	Matrix Algebra and Applications	3							3				3	
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3		3									3	
PHYS	1312	Honors General Physics I	3												
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)									0	
		Required credits for Engineering Fundamental Courses	22-26											21	
Major Required Courses and Electives															
MECH	1990	Industrial Training	0			0*	0^							0	
MECH	2020	Statics and Dynamics	3			3								3	
MECH	2040	Solid Mechanics I	3						3					3	
MECH	2210	Fluid Mechanics	3						3					3	
MECH	2310	Thermodynamics	3			3								3	
MECH	2410	Engineering Materials I	3				3							3	
MECH	2520	Design and Manufacturing I	3				3							3	
MECH	2907	Mechatronic Design and Prototyping	3						3					3	
MECH	3030	Mechanisms of Machinery	3								3			3	
		Note: MECH3300 OR MECH3420 OR MECH3520													
MECH	3300	Energy Conversion	3							3				3	
MECH	3420	Engineering Materials II	3												
MECH	3520	Design and Manufacturing II	3												
MECH	3310	Heat Transfer	3								3			3	
MECH	3610	Control Principles	3					3						3	
MECH	3630	Electrical Technology	3						3					3	
MECH	3830	Laboratory	3								3			3	
MECH	4900	Final Year Design Project	6									3	3	6	
ELEC	2420	Basic Electronics	3			3								3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4034	Technical Communication II for Mechanical and Areospace Engineering	3								3			3	
		Required credits for Major Requirements Courses and Electives	51											51	
BBA in Marketing															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3							3				3	
MARK	2120	Marketing Management	3				3							3	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	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				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 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research	4					4						4	
MARK	3420	Consumer Behavior	4						4					4	
MARK	4210	Strategic Marketing	4										4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4		12	
		Required credits for Major Required Courses and Electives	24											24	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	6					3		6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	18	19	19	16	15	15		
				174##											
						<< Declaration of BEng major		*<< Declaration of BBA major*							

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BEMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Bioengineering and BBA in Management)**														
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Bioengineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P]	3-5												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1029P	Python Programming Bridging Course	1												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
CHEM	1050	Laboratory for General Chemistry I	1	1										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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus I	3												
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
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)									0	
		Required credits for Engineering Fundamental Courses	23-29											22	
Major Required Courses and Electives															
		Note: BIEN 1010 OR CENG 1000													
BIEN	1010	Introduction to Biomedical Engineering	3		3									3	
CENG	1000	Introduction to Chemical and Biological Engineering	3												
BIEN	2310	Modeling for Chemical and Biological Engineering	3			3								3	
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3					3	
BIEN	2610	Chemical Biology for Engineers	3			3								3	
BIEN	2990	Academic and Professional Development I	1			1								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				3	
BIEN	3910	Bioengineering Laboratory	4							4				4	
		Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940													
BIEN	4920	Bioengineering Capstone Design	6												
BIEN	4930	Bioengineering Thesis Research	6									3	3	6	
BIEN	4940	Bioengineering Industrial Project	6												
BIEN	4990	Academic and Professional Development II	1									1		1	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	3230	Chemical and Biological Reaction Engineering	3							3				3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
		Note: LIFS 3150 OR MATH 2411	3-4												
LIFS	3150	Biostatistics	3			3								3	
MATH	2411	Applied Statistics	4												
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
SSCI/SENG		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)	15								6	3	6	15	
		Required credits for Major Required Courses and Electives	60-61											60	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/1029P/2011
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by LIFS 3150/MATH 2411
ISOM	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by BIEN3320
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3		3									3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2					2						2	
SBMT	1111	Business Student Induction	0	-	-	-	-	-	-	-	-	-	-	0	Substituted by ENGG 1010
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												
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	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	1013	Calculus IB	3	(3)										0	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		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 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4												
MGMT	3110	Human Resources Management	4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Managerial Leadership	4												
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												
MGMT	3130	Judgement and Decision Making in Organizations	4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
		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 requirement.)	3-4							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4210	Corporate Strategy	3												
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3			3	9	3		9		3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				19	18	18	18	18	19	19	18	16	12		
				175##											

<< 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

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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BTMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Science and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BSc in Biotechnology and BBA in Management)**													
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
						<< *Declaration of BEng major*		<< *Declaration of BBA major*							
BSc in Biotechnology															
School Requirements															
SCIE	1000	Science School Induction	0	0	0									0	
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3			3								3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3					3						3	
SSCI		Science Foundation Courses [6 courses from the specified elective list. Students should take 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laboratory course.]	22-25												
		Chemistry in Everyday Life													
CHEM	1004	General Chemistry IA	3												
CHEM	1010	General Chemistry IB	3												
CHEM	1020	General Chemistry II	3												
CHEM	1030	Laboratory for General Chemistry I	3												
CHEM	1050	Laboratory for General Chemistry II	1												
CHEM	1055		1												
		Environmental Science													
LIFS	1030	General Biology I@	3												
LIFS	1901@	General Biology II@	3												
LIFS	1902@	Laboratory for General Biology I	3												LIFS1901 & LIFS1902 are Major Pre-requisite
LIFS	1903	Laboratory for General Biology II	1												
LIFS	1904	Nature of Life Sciences	1												
LIFS	1930	Biochemistry I	3												
LIFS	2210		3	10	3	6	3							22	Students are recommended to take CHEM1010, CHEM1030, LIFS1903 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
		Calculus IA													
MATH	1012	Calculus IB	4												
MATH	1013	Calculus II	3												
MATH	1014	Accelerated Calculus	3												
MATH	1020	Honors Calculus I	4												
MATH	1023	Honors Calculus II	3												
MATH	1024	Multivariable Calculus	3												
MATH	2023	Linear Algebra	4												
MATH	2121	Honors in Linear and Abstract Algebra I	4												
MATH	2131		4												
		Physics and the Modern Society													
PHY	1001	General Physics I	3												
PHY	1111	General Physics I with Calculus	3												
PHY	1112	Laboratory for General Physics I	3												
PHY	1113	General Physics II	1												
PHY	1114	Laboratory for General Physics II	3												
PHY	1115	Honors General Physics I	1												
PHY	1312	Honors General Physics I	3												
		Required credits for School / Major Pre-requisite Requirements	25-29											28	
Major Requirements															
Major Required Courses and Electives															
LIFS	1903	Laboratory for General Biology I	1	(1)										0	
LIFS	1904	Laboratory for General Biology II	1		1									1	
LIFS	2040	Cell Biology	3				3							3	
LIFS	2070	Introduction to Biotechnology	3			3								3	
LIFS	2080	Plant Biology	3				3							3	
LIFS	2210	Biochemistry I	3			(3)								0	
LIFS	3060	Microbiology	3						3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3					3						3	
LIFS	3140	General Genetics	4							4				4	
LIFS	4150	Plant Biotechnology	3									3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3							3				3	
		Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) [Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]	3-7												
LIFS	4963	Biotechnology Capstone Project	3									[3]	3	3	
LIFS	4973	Biotechnology Project Research I	3												
LIFS	4983	Biotechnology Project Research II	4												
SCIE	4500	IRE Research Project II	3												
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	(3)										0	
CHEM	1020	General Chemistry IE	3												
CHEM	1030	General Chemistry II	3		(3)									0	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
CHEM	1055	Laboratory for General Chemistry II	1		1									1	
		Note: CHEM 2110 OR CHEM 2311													
CHEM	2110	Organic Chemistry I	3					3						3	
CHEM	2311	Analytical Chemistry	3												
		Note: CHEM2155 OR CHEM2355													
CHEM	2155	Fundamental Organic Chemistry Laboratory	1						1					1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
CENG	1600	Biotechnology and Its Business Opportunities	3							3				3	
LANG	3024	Science Communication in English (Life Science)	3										3	3	
LIFS/BIPH/BTEC/BIEN/ CENG		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. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	15-18						3		3	6	3	15	
		Required credits for Major Required Courses and Electives	62-70											56	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1							1				1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3			3								3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2										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		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												
MATH	1012	Calculus IA	4	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											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.)	4												
MGMT	3110	Human Resources Management	4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Managerial Leadership	4												
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												
MGMT	3130	Judgement and Decision Making in Organizations	4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
		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 requirement.)	3-4							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4210	Corporate Strategy	3												
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3			3	3	3	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				17	17	20	19	19	20	20	18	18	14		
				182##											
						<< *Declaration of BEng major*		<< *Declaration of BBA 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.

--- 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

CEMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Chemical Engineering and BBA in Management)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Chemical Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4 3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1010	Note: CHEM1010 OR CHEM1020 General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	2030	Technical Communication I	3					3						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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
PHYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	19-23											21	
Major Required Courses and Electives															
CENG	1000	Note: CENG1000 OR CENG1500 Introduction to Chemical and Biological Engineering	3	3										3	
CENG	1500	A First Course on Materials Science and Applications	3												
CENG	1600	Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities	3		3									3	
CENG	1700	Introduction to Environmental Engineering	3												
BIEN	1010	Introduction to Biomedical Engineering	3												
CENG	1010	Academic and Professional Development I	0			0								0	
CENG	1980	Industrial Training	0				0	0	0	0				0	
CENG	2110	Process and Product Design Principles	3			3								3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	2220	Process Fluid Mechanics	3				3							3	
CENG	2310	Modeling for Chemical and Biological Engineering	3			3								3	
CENG	3110	Process Dynamics and Control	3						3					3	
CENG	3150	Integrated Chemical Process & Product Design	5						5					5	
CENG	3210	Separation Processes	3					3						3	
CENG	3220	Heat and Mass Transfer	3					3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4			4	
CENG	4020	Academic and Professional Development II	0									0		0	
CENG	4920	Note: CENG4920 OR CENG4930 OR CENG4940 Chemical Engineering Capstone Design	6									3	3	6	
CENG	4930	Chemical Engineering Thesis Research	6												
CENG	4940	Chemical Engineering Industrial Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM	1050	Laboratory for General Chemistry I	1		1									1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3							3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1				1							1	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
BIEN	2410	Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers	3				3							3	
BIEN	2610	Chemical Biology for Engineers	3												
LIFS	1901	General Biology I	3												
SENG/SSCI/ENVR		CENG Elective (12 credits from specified elective list)	12					3	3	3	3			12	
		Required credits for Major Requirements Courses and Electives	68											68	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3							3				3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1			1								1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1			1								1	
ISOM	2700	Operations Management	3									3		3	
MARK	2120	Marketing Management	3		3									3	
MGMT	2010	Business Ethics and the Individual	2						2					2	
MGMT	2110	Organizational Behavior	3			3								3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2							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	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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	45-46											39	
Major Requirements															
Major Required Courses and Electives															
MGMT	3110	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	4 4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Managerial Leadership	4												
MGMT	3130	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	4 4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
MGMT	4210	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 requirement.) Corporate Strategy	3-4 3							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30				3		3		9	6	9	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	19	20	19	19	20	20	19	18	15		
				187##											
						<< 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 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 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

CIMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Civil Engineering and BBA in Management)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Civil Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM 1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
CIVL	3210	Introduction to Construction Management	3						3					3	
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3610	Traffic and Transportation Engineering	3						3					3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
		Note: CIVL 4910 OR CIVL 4920													
CIVL	4910	Civil and Environmental Engineering Final Year Project	6									3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6												
CIVL	4950	Civil Engineering Capstone Design Project	3									3		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/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								3	3	3	9	
		Required credits for Major Requirements Courses and Electives	66											66	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3			3								3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2								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				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												
MATH	1012	Calculus IA	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	1013	Calculus IB	3	(3)										0	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
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.)	4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3110	Human Resources Management	4												
MGMT	3120	Managerial Leadership	4												
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												
MGMT	3130	Judgement and Decision Making in Organizations	4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
		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 requirement.)	3-4												
MGMT	4210	Corporate Strategy	3							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6						6	9	3	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	20	19	19	18	20	18	15		
				185##											
						<< 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 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 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

COMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Computer Science and BBA in Management)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Computer Science															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1004	Note: CHEM1004 OR CHEM1010 OR CHEM1020 OR LIFS1901 OR PHYS1001 OR PHYS1112 OR PHYS1312 Chemistry in Everyday Life	3	3										3	
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3												
LIFS	1901	General Biology I	3												
PHYS	1001	Physics and the Modern Society	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	2030	Technical Communication I	3					3						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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2111	Matrix Algebra and Applications	3			3								3	
SENG		Engineering Introduction course (COMP students may also use COMP1022P or COMP1022Q to fulfill this requirement)	3-4	(3)										0	
		Required credits for Engineering Fundamental Courses	19-23											18	
Major Required Courses and Electives															
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4			4	4							8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Computer Organization	4						4					4	
COMP	2711	Note: COMP2711 OR COMP2711H Discrete Mathematical Tools for Computer Science	4			4								4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
COMP	3111	Note: COMP3111 OR COMP3111H Software Engineering	4					4						4	
COMP	3111H	Honors Software Engineering	4												
COMP	3511	Operating Systems	3							3				3	
COMP	3711	Note: COMP3711 OR COMP3711H Design and Analysis of Algorithms	3-4 3					3						3	
COMP	3711H	Honors Design and Analysis of Algorithms	4												
COMP	4900	Note: Students are required to take COMP4900 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	1991	Note: (COMP4981 OR COMP4981H) AND COMP1991 OR COMP4910 Industrial Experience	6 0												
COMP	4981	Final Year Project	6									3	3	6	
COMP	4981H	Final Year Thesis	6												
COMP	4910	Co-op FYP Program	6												
ELEC	2600	Note: ELEC2600 OR IELM2510 OR MATH2411 OR MATH2421 OR MATH2431 Probability and Random Processes in Engineering	3-4 4											4	Students should take MATH 2411 which will also be used to substitute ISOM 2500.
IEDA	2520	Probability for Engineers	3												
IEDA	2540	Statistics for Engineers	3			4									
MATH	2411	Applied Statistics	4												
MATH	2421	Probability	4												
MATH	2431	Honors Probability	4												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Technical Communication II for CSE & CPEG	3									3		3	
COMP		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.)	15							3	6	3	3	15	
COMP		COMP Elective (Any 1 course offered under COMP)	3										3	3	
		Required credits for Major Requirements Courses and Electives	53-58											57	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3				3							3	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by MATH 2411
ISOM	2600	Introduction to Business Analytics	1				1							1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3		3									3	
MGMT	2010	Business Ethics and the Individual	2				2							2	
MGMT	2110	Organizational Behavior	3			3								3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2							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					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 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
Major Requirements															
Major Required Courses and Electives															
MGMT	3110	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	4 4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Managerial Leadership	4												
MGMT	3130	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	4 4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
MGMT	4210	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 requirement.) Corporate Strategy	3-4 3							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3		3			3	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	19	18	17	17	18	15	12		
				170##											
						<< 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 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):

>> 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

CPMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Computer Engineering and BBA in Management)**														
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**
						<< Declaration of BEng major		*<< Declaration of BBA major*							
BEng in Computer Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	2030	Technical Communication I	3				3							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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
MATH	2111	Matrix Algebra and Applications	3					3						3	
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
PHYS	1114	Note: PHYS1114 OR PHYS1314 General Physics II	3						3					3	
PHYS	1314	Honors General Physics II	3												
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)										0	
		Required credits for Engineering Fundamental Courses	25-29											24	
Major Required Courses and Electives															
CPEG	2930	Academic and Professional Development I	0			0	0							0	
CPEG	3930	Academic and Professional Development II	0					0	0					0	
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8 4			4		4						8	
COMP	2012	Object-Oriented Programming and Data Structures	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
COMP	2611	Note: COMP2611 OR ELEC2350 Computer Organization	4 4				4							4	
ELEC	2350	Introduction to Computer Organization and Design	4												
COMP	2711	Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science	4 4							4				4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4												
ELEC	2600	Probability and Random Processes in Engineering	4												
COMP	3511	Operating Systems	3								3			3	
COMP	4521	Note: COMP4521 OR COMP4611 OR ELEC 4310 Mobile Application Develoepment	3-4 3									3		3	
COMP	4611	Design and Analysis of Computer Architectures	3												
ELEC	4310	Embedded System Design	4												
ELEC	4320	FPGA-based Design: From Theory to Practice	3												
ELEC	4330	Mobile Embedded Systems: Hardware Platform, Software Development, and Applications	3												
CPEG	1971	Note: [(CPEG4901 OR CPEG4902) AND CPEG1971] OR [(CPEG4911 OR CPEG4912) AND CPEG1971] OR CPEG4910 Industrial Experience	6 0												
CPEG	4901	Computer Engineering Final Year Project in COMP	6									3	3	6	
CPEG	4902	Computer Engineering Final Year Thesis in COMP	6												
CPEG	4911	Computer Engineering Final Year Project in ELEC	6												
CPEG	4912	Computer Engineering Final Year Thesis in ELEC	6												
CPEG	4910	Co-op Program	6												
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets	8 4				4		4					8	
ELEC	2100	Signals and Systems	4												
ELEC	2400	Electronic Circuits	4												
ELEC	3300	Introduction to Embedded Systems	4								4			4	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4030	Note: LANG4030 OR LANG4031 Technical Communication II for CSE & CPEG	3									3		3	
LANG	4031	Technical Communication II for ECE & CPEG	3												
COMP/ELEC		Area Courses (At least 4 courses from the specified elective list , of which at least 2 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					4	4	4	15	
		Required credits for Major Requirements Courses and Electives	59-63											62	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2		2									2	
MGMT	2110	Organizational Behavior	3		3									3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2								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					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 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4	(3)										0	
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											39	
Major Requirements															
Major Required Courses and Electives															
MGMT	3110	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	4 4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Managerial Leadership	4												
MGMT	3130	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	4 4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
MGMT	4210	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 requirement.) Corporate Strategy	3-4 3							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6		3				9	3	3	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	17	20	20	19	20	19	19	19	13		
				184##											
						<< 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 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):

>> 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

CVMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in Management)**													**Remarks**
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	
BEng in Civil and Environmental Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM 1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3			3								3	
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Required credits for Engineering Fundamental Courses	22-26											24	
Major Required Courses and Electives															
CIVL	1010	Academic Professional Development I	0			0	0							0	
CIVL	1100	Discovering Civil and Environmental Engineering	3		3									3	
CIVL	2010	Academic Professional Development II	0					0	0					0	
CIVL	2020	Industrial and BIM Training	0			0*	0							0	
CIVL	2110	Statics	3			3								3	
CIVL	2120	Mechanics of Materials	3				3							3	
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	
CIVL	2170	Infrastructure Systems Engineering and Management	3				3							3	
CIVL	2410	Environmental Assessment and Management	3				3							3	
CIVL	2510	Fluid Mechanics	3				3							3	
CIVL	2810	Construction Materials	3					3						3	
CIVL	3010	Academic Professional Development III	0							0	0			0	
CIVL	3020	Internship Training	0								0^			0	
		Note: CIVL3210 OR CIVL3610													
CIVL	3210	Introduction to Construction Management	3						3					3	
CIVL	3610	Traffic and Transportation Engineering	3												
CIVL	3310	Structural Analysis	3					3						3	
CIVL	3320	Reinforced Concrete Design	3						3					3	
CIVL	3420	Water and Wastewater Engineering	3						3					3	
CIVL	3510	Hydrosystems Engineering	3					3						3	
CIVL	3730	Fundamentals of Geotechnics	3							3				3	
CIVL	3740	Geotechnical Analysis and Design	3								3			3	
		Note: CIVL 4910 OR CIVL 4920													
CIVL	4910	Civil and Environmental Engineering Final Year Project	6									3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6												
CIVL	4950	Civil Engineering Capstone Design Project	3									3		3	
		Note: CIVL4450 OR CIVL 5450 OR CIVL5460													
CIVL	4450	Carbon Footprint Analysis and Reduction	3								3			3	
CIVL	5450	Hazardous Waste Treatment and Site Remediation	3												
CIVL	5460	Landfill Engineering and Design	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/SENG		CIVL (Environmental) Electives [at least 1 course should be selected from the "Restricted Electives".] 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)	6									3	3	6	
		Required credits for Major Requirements Courses and Electives	66											66	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1				1							1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by CIVL 2160
ISOM	2600	Introduction to Business Analytics	1						1					1	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3		3									3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2							2				2	
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Substituted by ENGG 1010
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												
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											36	
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.)	4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3110	Human Resources Management	4												
MGMT	3120	Managerial Leadership	4												
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												
MGMT	3130	Judgement and Decision Making in Organizations	4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
		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 requirement.)	3-4												
MGMT	4210	Corporate Strategy	3							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6						6	9	3	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	19	20	20	18	18	15		
								185##							

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 winter term

^ Courses offered in summer term

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

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

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

DAMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Decision Analytics and BBA in Management)**														
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Decision Analytics															
Major Requirements															
Engineering Fundamental Courses															
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									3	This course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM PHYS PHYS	1010 1020 1112 1312	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA General Chemistry IB General Physics I with Calculus Honors General Physics I	3 3 3 3	3										3	
LANG	2030	Technical Communication I	3				3							3	
MATH MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	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 I	4-7 4 3 3 4 3 3	3	3									6	
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)									0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA IEDA	1990 1991	Note: IEDA1990 OR IEDA1991 Industrial Training Industrial Experience	0 0			0	0	0	0	0	0	0	0	0	
IEDA	2520	Probaility for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Prescriptive Analytics	3					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	
IEDA	3560	Predictive Analytics	3						3					3	
IEDA IEDA	4901 4920	Note: IEDA4901 OR IEDA4920 Final Year Thesis Decision Analytics Final Year Project	6 6									3	3	6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
ECON ECON	2103 2113	Note: ECON2103 OR ECON2113 Principles of Microeconomics Microeconomics	3 3			3								3	
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3						3					3	
IEDA		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the same area)	15						3	6	3	3		15	
		Required credits for Major Required Courses and Electives	48											48	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3			(3)								0	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3									3		3	
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3								3			3	
MARK	2120	Marketing Management	3			3								3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3			3								3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2							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	3	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	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	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											33	
Major Requirements															
Major Required Courses and Electives															
MGMT MGMT	3110 3120	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	4 4 4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT MGMT	3130 3140	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 Negotiation	4 4 4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT MGMT	4210 4220	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 requirement.) Corporate Strategy Entrepreneurship and Innovation	3-4 3 4							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	6		3			3	3		6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	17	19	17	12	12	12		
				161##											

<< 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 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 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.

The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

EEMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Electronic Engineering and BBA in Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
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)	9-10												
ELEC	2600	Probability and Random Processes in Engineering	4												
ELEC	2600H	Honors Probability and Random Processes in Engineering	4	3		3		3						9	
MATH	2011	Introduction to Multivariable Calculus	3												
MATH	2111	Matrix Algebra and Applications	3												
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: COMP1021 OR COMP1022P													
COMP	1021	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4			4								4	
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
		Note: PHYS1114 OR PHYS1314													
PHYS	1114	General Physics II	3		3									3	
PHYS	1314	Honors General Physics II	3												
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)									0	
		Required credits for Engineering Fundamental Courses	32-37											31	
Major Required Courses and Electives															
ELEC	1100	Introduction to Electro-Robot Design	4			4								4	
ELEC	1200	A System View of Communications: from Signals to Packets	4				4							4	
		Note: ELEC2100 OR ELEC2100H													
ELEC	2100	Signals and Systems	4							4				4	
ELEC	2100H	Honors Signals and Systems	4												
ELEC	2350	Introduction to Computer Organization and Design	4							4				4	
ELEC	2400	Electronic Circuits	4						4					4	
ELEC	2910	Academic and Professional Development I	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	6												
ELEC	4901	Final Year Thesis	6									3	3	6	
ELEC	2991	Industrial Experience (Electronic Engineering)	0												
ELEC	4910	Co-op Program	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4031	Technical Communication II for ECE & CPEG	3									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				3		3		6	3	6	21	
		Required credits for Major Requirements Courses and Electives	50											50	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON2103 OR ECON2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON2123 OR ECON3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2					2						2	
MGMT	2110	Organizational Behavior	3				3							3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2						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						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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											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.)	4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3110	Human Resources Management	4												
MGMT	3120	Managerial Leadership	4												
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												
MGMT	3130	Judgement and Decision Making in Organizations	4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
		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 requirement.)	3-4							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4210	Corporate Strategy	3												
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	3					6	9	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	20	19	20	19	20	18	15	12		
				179##											
						<< 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 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):

>> 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

IEMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		**Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in Management)**													
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Industrial Engineering and Engineering Management															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science	3-4 3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1010	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
LANG	2030	Technical Communication I	3					3						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 4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3				3							3	
MATH	2111	Matrix Algebra and Applications	3			3								3	
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)										0	
		Required credits for Engineering Fundamental Courses	22-27											21	
Major Required Courses and Electives															
IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA	1990	Note: IEDA1990 OR IEDA1991 Industrial Training	0			0*	0^							0	
IEDA	1991	Industrial Experience	0												
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Presciptive Analytics	3					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	
IEDA	4100	Integrated Production Systems	3								3			3	This course will also be used to substitute ISOM 2700
IEDA	4130	System Simulation	3								3			3	
IEDA	4901	Note: IEDA4901 OR IEDA4990 Final Year Thesis	6									3	3	6	
IEDA	4960	Industrial Engineering and Engineering Management Final Year Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0	0	0	0	0	0	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
LANG	4032	Technical Communication II for Industrial Engineering and Decision Analytics	3									3		3	
IEDA		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			6	3			3		3	6	21	
		Required credits for Major Requirements Courses and Electives	57											57	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3		3									3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			(3)								0	
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3				3							3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3					3						3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA2540
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 4100
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 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2									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				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	(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											30	
Major Requirements															
Major Required Courses and Electives															
MGMT	3110	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	4 4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Managerial Leadership	4												
MGMT	3130	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	4 4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
MGMT	4210	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 requirement.) Corporate Strategy	3-4 3							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	6	6				3	6	6		3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	18	18	18	15	14	12		
				167##											
						<< 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 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 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

MEMGMT **2020-21 Intake**

(Via DDP PBA)

School:		School of Engineering and School of Business Management		Student's Pathway												
Program:		**Dual Degree Program (BEng in Mechanical Engineering and BBA in Management)**														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall *<< Declaration of BEng major*	Year 2 Spring	Year 3 Fall *<< Declaration of BBA major*	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	**Sub-total**	**Remarks**
BEng in Mechanical Engineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
COMP	1021	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
LANG	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												
MATH	1012	Calculus IA	4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3					3						3	
		Note: MATH2111 OR MATH2350 OR MATH2351													
MATH	2111	Matrix Algebra and Applications	3							3				3	
MATH	2350	Applied Linear Algebra and Differential Equations	3												
MATH	2351	Introduction to Differential Equations	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3		3									3	
PHYS	1312	Honors General Physics I	3												
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)									0	
		Required credits for Engineering Fundamental Courses	22-26											21	
Major Required Courses and Electives															
MECH	1990	Industrial Training	0			0*	0^							0	
MECH	2020	Statics and Dynamics	3			3								3	
MECH	2040	Solid Mechanics I	3						3					3	
MECH	2210	Fluid Mechanics	3						3					3	
MECH	2310	Thermodynamics	3			3								3	
MECH	2410	Engineering Materials I	3				3							3	
MECH	2520	Design and Manufacturing I	3				3							3	
MECH	2907	Mechatronic Design and Prototyping	3						3					3	
MECH	3030	Mechanisms of Machinery	3								3			3	
		Note: MECH3300 OR MECH3420 OR MECH3520													
MECH	3300	Energy Conversion	3							3				3	
MECH	3420	Engineering Materials II	3												
MECH	3520	Design and Manufacturing II	3												
MECH	3310	Heat Transfer	3								3			3	
MECH	3610	Control Principles	3					3						3	
MECH	3630	Electrical Technology	3						3					3	
MECH	3830	Laboratory	3								3			3	
MECH	4900	Final Year Design Project	6									3	3	6	
ELEC	2420	Basic Electronics	3			3								3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG	4034	Technical Communication II for Mechanical and Areospace Engineering	3								3			3	
		Required credits for Major Requirements Courses and Electives	51											51	
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business	1					1						1	
ISOM	2500	Business Statistics	3			3								3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3										3	3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2									2		2	
MGMT	2110	Organizational Behavior	3				3							3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2										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				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												
MATH	1012	Calculus IA	4	(3)										0	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	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											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.)	4						4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3110	Human Resources Management	4												
MGMT	3120	Managerial Leadership	4												
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												
MGMT	3130	Judgement and Decision Making in Organizations	4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4												
		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 requirement.)	3-4							3				3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4210	Corporate Strategy	3												
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		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.)	9							3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
		Required credits for Major Required Courses and Electives	20-21											20	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	9	6					3		6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				18	18	18	18	18	19	18	15	14	14		
				170##											

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

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4035	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
						LANG 4035	Technical Communication II for Chemical and Biological Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SSCI, SBM and DDP students

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		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4035	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
						LANG 4035	Technical Communication II for Chemical and Biological Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4033	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
						LANG 4033	Technical Communication II for Civil and Environmental Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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	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 4030	Technical Communication II for CSE & CPEG	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4030 OR LANG 4031	Technical Communication II for CSE & CPEG OR Technical Communication II for ECE & CPEG	3 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 4030 OR LANG 4031	Technical Communication II for CSE & CPEG OR Technical Communication II for ECE & CPEG	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4033	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
						LANG 4033	Technical Communication II for Civil and Environmental Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4032	Technical Communication II for Industrial Engineering and Decision Analytics	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 4032	Technical Communication II for Industrial Engineering and Decision Analytics	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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	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 4031	Technical Communication II for ECE & CPEG	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4032	Technical Communication II for Industrial Engineering and Decision Analytics	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 4032	Technical Communication II for Industrial Engineering and Decision Analytics	3	SENG requirement
	Total	12		Total	12		Total	18	

Attachment C

English Language Requirements of SENG, SBM and DDP students

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
LANG 4034	Technical Communication II for Mechanical and Areospace 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
						LANG 4034	Technical Communication II for Mechanical and Areospace Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	