File: 13/21

COMMITTEE ON UNDERGRADUATE STUDIES

Discussion/Decision Paper for:

Title: Dual Degree Program in Technology and Management: (i) BEng in

Aerospace Engineering; and (ii) BSc in Integrative Systems and

Design with BBA Programs

The Interdisciplinary Programs Office submits two proposals of the Purpose:

> deviation arrangements for two new dual degree programs - BEng in Aerospace Engineering and BSc in Integrative Systems and Design, with BBA in Economics, BBA in Finance, BBA in General Business Management, BBA in Management and BBA in Marketing to take effect

from Fall 2021-22 for consideration by the CUS

Submitted by: Interdisciplinary Programs Office

Prepared by: **CUS Secretariat**

BACKGROUND

- 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.
- At its 124th CUS meeting in May 2012, CUS approved the deviation arrangements for 2. the first batch of nine BEng and BBA dual degree programs under the four-year degree curriculum. With the demand for more combinations of dual degree program, the Interdisciplinary Programs Office (IPO) has submitted two proposals regarding pre-approved deviation arrangements for two new dual degree programs - BEng in Aerospace Engineering and BBA and BSc in Integrative Systems and Design and BBA.

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 plans, the total credits students will earn when completing the newly proposed BEng/BSc and BBA dual degree programs range from 182 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) and School of Business and Management (SBM), with the 6-credit University English Core courses being counted towards both degrees (see *Attachment C* of Appendices 1 and 2).
- (d) Substitution and waiver of courses and requirements for School and major requirements: Details of the substitution and waiver arrangements are set out in <u>Attachment A of Appendices 1 and 2</u>.
- (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 <u>Attachment A of Appendices 1 and 2</u>).
- 4. The deviation arrangements have been reviewed and agreed by the SENG and SBM.
- 5. The deviations from curriculum proposed in paragraph 3 could apply to all students enrolled in the two 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 and SBM, following the current policy and procedures for approving deviations from curriculum.
- 6. The changes are proposed to take effect from Fall 2021-22, applicable to 2020-21 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, as well as those admitted from the Schools of Engineering, and Business and Management are presented in <u>Attachment B of Appendices 1 and 2</u>. Provided that there is sufficient overlap of courses between the Common Core and School/Major Requirements, students may further benefit from reduced requirements of 15 credits.

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 <u>paragraph 3</u> and in <u>Attachment A of Appendices 1 and 2</u>; and
- (ii) note for information the total credits needed to complete the proposed dual degree programs, and the students' study pathways as presented in <u>Attachment B of Appendices 1 and 2</u>.

MEMORANDUM

To:

CUS Secretariat

via:

Prof. Jimmy Fung

Chair, Interdisciplinary Undergraduate Studies Committee

From:

Prof. Kai Lung Hui

Co-director of Dual Degree Program in Technology & Management

& Prof. Pedro Sander

Co-director of Dual Degree Program in Technology & Management

Date:

10th February, 2021

Our Ref:

402/DDP

Subject:

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

(BEng in Aerospace Engineering and BBA)

Dual Degree Program in Technology & Management (T&M-DDP) would like to propose the 5-year curriculum for BEng in Aerospace Engineering and BBA with effect from Fall 2021-22. This change will have effect on the 2020-2021 cohort onwards. The new curriculum will include 5 new majors. The program structure is listed below.

Total: 5 new majors	BEng in Aerospace Engineering	and	BBA in Economics BBA in Finance BBA in General Business Management
3 new majors			BBA in Management
			BBA in Marketing

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 new majors for program-based admission students and two 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 of BEng in Aerospace Engineering and BBA (see Attachment A).

2. Additional Dual Degree Requirements

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

3. English Language Requirements

The English Language requirements of BEng in Aerospace Engineering and BBA are a combination of the requirements of university, AE, SENG 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.

For BEng in Aerospace Engineering, students may reuse up to 9 credits of courses to count towards both the School Requirements and the University Common Core Requirements.

For BBA degree in all Dual Degree programs, students may reuse up to 6 credits of courses to count towards both the School Requirements and the University Common Core Requirements.

By combining the two degrees, students can double-count up to 15 credits. The total credits requirements are as follow:

Total Credits Requirements								
Without double-counting of Common Core	After double-counting of Common Core							
Requirements	Requirements is applied							
191-182	176-167							

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

School/Dept.	Approval	Name	Date
MAE	Yes / No	Prof. Baoling HUANG, UG Coordinator	19 Feb 2021
ECON	Yes / No	Prof. Wooyoung LIM	10 Feb 2021
FINA	Yes / No	Prof. Ekkachai SAENYASIRI	19 Feb 2021
MARK	Yes / No	Prof. Jiewen HONG	16 Feb 2021
MGMT	Yes / No	Prof. Yaping GONG	16 Feb 2021
SENG	Yes / No	Prof. Philip L. T. MOK, Associate Dean	18 Feb 2021
		of Engineering	
SBM	Yes / No	Prof. Allen HUANG, Associate Dean	19 Feb 2021
		(UG Programs)	

For consideration and approval please. Thank you very much.

Encl.

- A. Attachment A Deviation from Curriculum
- $B. \ \ Attachment \ B-Suggested \ pathways \ of \ Dual \ Degree \ programs \ of \ BEng \ in \ Aerospace \ Engineering \ and \ BBA$
- C. Attachment C English language requirements of Dual Degree programs of BEng in Aerospace Engineering and BBA

Deviation from curriculum

for Dual Degree Program

Degree Program 1: BEng in Aerospace Engineering (AE)

Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

BBA in Management (MGMT) OR

BBA in Marketing (MARK)

		nts specified for the program	Substituted/ Waived/		stituted course/ rement	
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/FINA/GBM/ MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
						[For non-SENG year 1 students admitted to T&M-DDP via School-based admission]
AE	ENGG 1010	0	Substituted	SBMT 1111	0	DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
AE	-	-	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
AE	-	-	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		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 and COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

<u>AEGBM</u>

(Via DDP PBA)

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

An Example on Student's Pathway

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

School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Aerospace Engineering and BBA in General Business rogram Remarks Offering Dept. Course Code Course Title / Courses List course code prefix) **BEng in Aerospace Engineering** Major Requirements **Engineering Fundamental Courses** Note: COMP1021 OR COMP1022P OR COMP2011 3-4 ntroduction to Computer Scien This course will also be used to COMF 1022P Introduction to Computing with Java substitute ISOM 2010 OMP 2011 Programming with C++ ENGG 1010 Academic Orientation 0 2030 3 3 3 ANG **Technical Communication I** Note: I(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] 1012 MATH Calculus IA 1013 1014 MATH Calculus IB 3 Calculus II MATH 1020 Accelerated Calculus матн 1023 Honors Calculus I Honors Calculus I MATH 1024 MATH 2011 Note: MATH2111 OR MATH2350 OR MATH2351 MATH 2111 Matrix Algebra and Applications 3 MATH 2350 Applied Linear Algebra and Differential Equations MATH Introduction to Differential Equations 2351 Note: PHYS1112 OR PHYS1312 General Physics I with Calculus PHYS 1312 Honors General Physics I 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 1907 Introduction to Aerospace Engineering 3 MECH 1990 ndustrial Training 0 0* 0^ 0 MECH 2020 Statics and Dynamics 3 MECH 2040 Solid Mechanics I 3 3 2210 3 3 MECH Fluid Mechanics MECH 2310 Thermodynamics 3 3 3 месн 2410 Engineering Materials I 3 3 3 MECH 3400 ntroduction to Composite Materials 3 3 MECH 3610 Control Principles 3 3620 Aircraft Design 3 MECH 3 MECH 3640 3 Aerodynamics Aircraft Structural Analysis МЕСН 3650 3 3 3 МЕСН 3660 Gas Turbines and Jet Propulsion 3 3 3 MECH 3670 Aircraft Performance and Stability MECH 3680 3 3 Avionics Systems 3690 MECH Aerospace Engineering Laboratory 3 4980 6 МЕСН 6 Final Year Aerospace Design Project ELEC 2420 Basic Electronics 3 3 3 ENGG 2010 **Engineering Seminar Series** 0 0 0 0 0 LANG 4034 Technical Communication II for Mechanical and Areospace Engineering 3 3 3 MECH MECH Electives in Aerospace (2 courses from the specified elective list) 6 Required credits for Major Requirements Courses and Electives 63 63 BBA in General Business Management School Requirements ACCT 2010 Principles of Accounting I 3 3 ACCT 2200 Principles of Accounting II Note: ECON 2103 OR ECON 2113 3 ECON 2113 Microeconomics Note: ECON 2123 OR ECON 3123 2123 3 ECON Macroeconomics 3 ECON Macroeconomic Theory I FINA 2303 Financial Management 3 3 3 Substituted by COMF ISOM 2010 3 0 Introduction to Information Systems 1021/1022P/2011 2020 ISOM Coding for Business ISOM 2500 **Business Statistics** 3 3 ISOM 2600 Introduction to Business Analytics 1 ISOM 2700 Operations Management 3 3 MARK 3 2120 Marketing Management MGMT 2010 2 Business Ethics and the Individual 2 2 MGMT 2110 Organizational Behavior мдмт 2130 Business Ethics and Social Responsibility 2 2 SBMT 1111 **Business Student Induction** 0 0 Waived for DDP students LABU 2040 Effective Communication in Business LABU 2060 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH MATH 1003 Calculus and Linear Algebra 1012 or MATH 1013 or MATH 1020 1012 1013 or MATH 1023 to satisfy the (3) MATH Calculus IB equirements of both BEng and BBA MATH 1020 Accelerated Calculus lonors Calculus I Required credits for School Requirements 45-46 39 Major Requirements Major Required Courses and Electives SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least SB&M courses are of 3000-level or above.) Required credits for Major Required Courses and Electives **Additional Requirements** Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities TEMG 1010 0 TEMG 3950 Required credits for Additional Requirements **University CORE** CORE C3 - C12 U CORE - Others 30 30 C1 & C2 U CORE - English Language 6 CORE Sub-total for University CORE 36 36 Term load (excl. free credits) 18 18 21 20 20 20 18 18 19 19 191## << Declaration of BBA major << Declaration of Notes BEng major () indicates the reuse of the same course to fulfill more than one requirement.

^{*} Courses offered in winter term ^ Courses offered in summer term

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

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

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

An Example on Student's Pathway << Declaration of
BEng major BBA major</pre>

BEng major

AEFINA 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management				BEng ma	,,,,	BBA maj	<u> </u>	Student	's Pathway	,			
Program:		Dual Degree Program (BEng in Aerospace Engineering and BBA in Finance	e)												
-				\vdash		:		:							-
Course			C	Yea	Year 1 Spring	Yea	Year 2 Spring	Yea	Year 3 Spring	Yea	Year 4 Spring	Yea	Year 5 Spring	Su	Remarks
Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	1 Sp	Year 2 Fall	2 Sp	Year 3 Fall	ဒ တ္ထ	Year 4 Fall	4 Sp	Year 5 Fall	5 Sp	Sub-total	
(course code prenx)			0,	a a	ring	<u>≅</u>	ring	≌	ring	a a	ring	<u>ai</u>	ring	<u> </u>	
BEng in Aer	ospace Engi	neering		II				-							
Major Require															
Engineering Fund															
00145		Note: COMP1021 OR COMP1022P OR COMP2011	3-4 3			<u> </u>		i							
COMP COMP	1021 1022P	Introduction to Computer Science Introduction to Computing with Java	3	3		į		į						3	This course will also be used to substitute ISOM 2010
COMP	1010	Programming with C++ Academic Orientation	0	0	0	i 		i —						0	
LANG	2030	Technical Communication I	3	₩		i 		i —	3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			į		į							
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3			į		į							
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4	3	3	į		į						6	
MATH MATH	1023 1024	Honors Calculus I Honors Calculus I	3 3			į		į							
MATH	2011	Introduction to Multivariable Calculus	3			3		i						3	
MATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications	3			į		i							
MATH MATH	2350 2351	Applied Linear Algebra and Differential Equations Introduction to Differential Equations	3 3			i	3	i						3	
WATH	2331	Note: PHYS1112 OR PHYS1312	-	1		i 		i 							
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3		3	i		i						3	
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)	i		i						0	
Maian Dannina d O		Required credits for Engineering Fundamental Courses	22-26			i		<u> </u>						21	
Major Required Co	ourses and Elective	Introduction to Aerospace Engineering	3		Ι	3		ı					Ι	3	
MECH	1990	Industrial Training	0			0*	0^							0	
MECH MECH	2020 2040	Statics and Dynamics Solid Mechanics I	3			3	3	i						3	
MECH	2210	Fluid Mechanics	3				3							3	
MECH	2310	Thermodynamics	3			3			_					3	
MECH MECH	2410 3400	Engineering Materials I Introduction to Composite Materials	3			├─		<u> </u>	3	3			 	3	
MECH	3610	Control Principles	3			-		3						3	
MECH MECH	3620 3640	Aircraft Design Aerodynamics	3	-	<u> </u>					3	3			3	
MECH	3650	Aircraft Structural Analysis	3							3				3	
MECH	3660	Gas Turbines and Jet Propulsion	3	-							3			3	
MECH MECH	3670 3680	Aircraft Performance and Stability Avionics Systems	3	╂		: 		-	3	3				3	
MECH	3690	Aerospace Engineering Laboratory	3								3			3	
MECH ELEC	4980 2420	Final Year Aerospace Design Project Basic Electronics	6	-		!		3				3	3	6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG MECH	4034	Technical Communication II for Mechanical and Areospace Engineering	3			. 		<u> </u>			3	_	2	3 6	
MECH	Red	MECH Electives in Aerospace (2 courses from the specified elective list) quired credits for Major Requirements Courses and Electives		╂		!		-				3	3	63	
BBA in Fina	nce	· · · · · · · · · · · · · · · · · · ·					•				•	•	•		
School Requir	rements														
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3	3	3	<u>:</u>		<u> </u>						3	
		Note: ECON 2103 OR ECON 2113		 		!		-							
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3		3	!		!						3	
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	,			3		!						3	
ECON ECON	3123	Macroeconomic Theory I	3 3			!		!						3	
FINA	2303	Financial Management	3			!	3	!						3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3			!								0	Substituted by COMP 1021/1022P/2011
ISOM ISOM	2020 2500	Coding for Business Business Statistics	3	3		!		1						3	
ISOM	2600	Introduction to Business Analytics	1	├		!		1						1	
ISOM	2700	Operations Management	3						3					3	
MARK MGMT	2120 2010	Marketing Management Business Ethics and the Individual	3 2	╂		!	2	<u> </u>						3 2	
MGMT	2110	Organizational Behavior	3				3							3	
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	0			<u> </u>		2						0	Waived for DDP students
LABU	2040	Business Student induction Business Case Analyses	3					3						3	THAT YELD DOF STUDENTS
LABU	2060	Effective Communication in Business	3	-		<u> </u>		!				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			!		!			Ī				DDP students should take MATH 1012 or MATH 1013 or MATH 1020
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3	(3)		!		!						0	or MATH 1023 to satisfy the requirements of both BEng and BBA
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			!		!							degrees
		Required credits for School Requirements	45-46			!		<u> </u>						39	
Major Require															
Major Required Co	ourses and Elective	es 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			!		į		3	ĺ			3	
ACCT ACCT	3020 3030	Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3 3			<u> </u>		<u>i</u>							
ISOM	3230	Note: ISOM 3230 OR ISOM 3400	3					i							DDP students who took COMP 1021
ISOM ISOM	3230 3400	Business Applications Programming Python Programming for Business Analytics	3		L_	!		<u>i</u>	3				L_	3	in BEng requirements are required to take ISOM 3230
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9			<u> </u>		i			3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28											25	
Additional R															
Requirements	for Dual Degre														
Required Courses	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	<u> </u>
TEMG	3950	Case-based Problem Solving	3		3		U				0			3	
Habrer V 65	•	Required credits for Additional Requirements						:						3	
University CO	RE C3 - C12	U CORE - Others	30	3		6	I	3	6	ı	I	6	6	30	1
CORE	C1 & C2	U CORE - English Language	6	3	3	<u> </u>		: ³				0	0	6	
		Sub-total for University CORE	36					Torm ! '	avel fee-	lite)				36	
				18	18	21	20	Term load (e	excl. free cred	lits) 18	18	18	15	1	
					•			1	87##				•]	
Notes:						"<< Declar	ration of	<< Decla	ration of						

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

* Courses offered in winter term

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

An Example on Student's Pathway

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

AEECON 2020-21 Intake

School of Engineering and School of Business Management Dual Degree Program (BEng in Aerospace Engineering and BBA in Economics) rogram Remarks Offering Dept. Course Code Course Title / Courses List ourse code prefix) BEng in Aerospace Engineering Major Requirements Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 ntroduction to Computer Scien This course will also be used to ntroduction to Computing with Java Programming with C++ substitute ISOM 2010 ENGG 1010 Academic Orientation 0 0 0 0 2030 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH 1012 Calculus IA Calculus IB Calculus II 1013 1014 MATH 1020 Accelerated Calculus MATH 1023 Honors Calculus I lonors Calculus II Introduction to Multivariable Calculus MATH 2011 3 3 Note: MATH2111 OR MATH2350 OR MATH2351 MATH 2111 Matrix Algebra and Applications 3 Applied Linear Algebra and Differential Equations 2350 2351 MATH ntroduction to Differential Equations Note: PHYS1112 OR PHYS1312 General Physics I with Calculus Honors General Physics I 1112 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 1907 Introduction to Aerospace Engineering MECH 1990 Industrial Training 0 MECH 2020 3 3 Statics and Dynamics MECH 2040 Solid Mechanics I 3 MECH 2210 Fluid Mechanics 3 3 3 MECH 2310 Thermodynamics 3 MECH 2410 Engineering Materials I 3 3 MECH 3400 Introduction to Composite Materials 3 MECH 3610 Control Principles 3 3 MECH 3620 Aircraft Design 3 MECH 3640 Aerodynamics 3 3 3 MECH 3650 Aircraft Structural Analysis 3 MECH 3660 3 3 Gas Turbines and Jet Propulsion MECH 3670 Aircraft Performance and Stability 3 MECH 3680 3 3 3 Avionics Systems MECH 3690 Aerospace Engineering Laboratory 3 3 MECH 4980 Final Year Aerospace Design Project 6 6 ELEC 2420 Basic Electronics 3 ENGG 2010 0 0 0 0 Engineering Seminar Series 4034 Technical Communication II for Mechanical and Areospace Engineering 3 3 LANG MECH Electives in Aerospace (2 courses from the specified elective list) MECH 6 6 Required credits for Major Requirements Courses and Electives 63 63 **BBA** in Economics School Requirements Principles of Accounting I 3 ACCT 3 Principles of Accounting II ACCT 3 Note: ECON 2103 OR ECON 2113 3 3 Principles of Mici ECON 2113 ECON 2103/2113/2123 is a major ote: ECON 2123 OR ECON 3123 ECON 2123 3 3 **ECON** 3123 Macroeconomic Theory FINA 3 2303 Financial Management 3 Substituted by COMP ISOM 2010 Introduction to Information Systems 3 0 1021/1022P/2011 ISOM 2020 Coding for Business 1 1 1 ISOM 2500 **Business Statistics** 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 DDP students should take MATH 1003 1012 1013 Calculus and Linear Algeb Calculus IA матн 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the (3) MATH Calculus IB equirements of both BEng and BBA MATH 1020 Accelerated Calculus lonors Calculus I Required credits for School Requirements 45-46 39 **Major Requirements** Major Required Courses and Electives Managerial Microeconomics ECON 3024 Managerial Macroeconomics 4 4 ECON 3334 4 4 4 Introduction to Econometrics ECON 4670 Economics Research and Communication 0 0 0 ECON CON 4000-level Electives (Any 3 courses of the subject and level as specified) 11 Required credits for Major Required Courses and Electives 23 Additional Requirements **Requirements for Dual Degree Program** Required Courses Technology and Management Professional Activities TEMG 0 TEMG Case-based Problem Solving 3 Required credits for Additional Requirements **University CORE** U CORE - Others 30 U CORE - English Language Sub-total for University CORE 36 20 19

Notes

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

<< Declaration of | << Declaration of

BEng major BBA major

^{*} Courses offered in winter term

[^] Courses offered in summer term

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

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

An Example on Student's Pathway

<< Declaration of | << Declaration of

AEMARK 2020-21 Intake

(Via DDP PBA)

BEng major BBA major School of Engineering and School of Business Management School rogram Dual Degree Program (BEng in Aerospace Engineering and BBA in Marketing) Remarks Offering Dept Course Code Course Title / Courses List course code prefix) **BEng in Aerospace Engineering** Major Requirements Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 This course will also be used to ntroduction to Computer Science ntroduction to Computing with Java OMF substitute ISOM 2010 ogramming with C++ OMF ANG 2030 Technical Communication I 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH MATH 1012 1013 Calculus IB 3 3 MATH 1014 Calculus II матн 1020 Accelerated Calculus MATH 1024 Honors Calculus I ИТА 2011 Introduction to Multivariable Calculus 3 Note: MATH2111 OR MATH2350 OR MATH2351 MATH Matrix Algebra and Applications Applied Linear Algebra and Differential Equations Introduction to Differential Equations матн 2350 Note: PHYS1112 OR PHYS1312 1112 1312 3 3 PHYS Honors General Physics I HEM/LIFS/ PHYS Science 1000-level course (Any 1 course of the subject and level as specified) (3) Required credits for Engineering Fundamental Courses 22-26 21 Major Required Courses and Electives 3 1907 Introduction to Aerospace Engineering Industrial Training MECH 1990 0 0* 0 MECH 2020 Statics and Dynamics 3 3 3 MECH 2040 Solid Mechanics I 3 3 MECH 2210 Fluid Mechanics 3 3 3 MECH 2310 Thermodynamics 3 3 2410 3 MECH Engineering Materials I 3 MECH 3400 Introduction to Composite Materials 3 3 3610 3 MECH Control Principles 3 MECH 3620 Aircraft Design 3 3 3640 3 MECH Aerodynamics 3 Aircraft Structural Analysis MECH 3650 3 3 3 3660 Gas Turbines and Jet Propulsion 3 3 MECH 3670 MECH Aircraft Performance and Stability 3 3 MECH 3680 Avionics Systems 3 3 MECH 3690 Aerospace Engineering Laboratory 3 3 Final Year Aerospace Design Project 6 6 MECH 4980 ELEC 2420 Basic Electronics 3 3 2010 Engineering Seminar Series 0 0 ENGG 0 ANG 4034 Technical Communication II for Mechanical and Areospace Engineering 3 3 6 6 иЕСН MECH Electives in Aerospace (2 courses from the specified elective list) Required credits for Major Requirements Courses and Electives 63 63 **BBA** in Marketing **School Requirements** Principles of Accounting I 3 ACCT 2200 Principles of Accounting II 3 3 Note: ECON 2103 OR ECON 2113 Principles of Microecon CON 2103 3 3 3 Note: ECON 2123 OR ECON 3123 ECON Macroeconomics ECON 3123 Macroeconomic Theory I FINA 2303 Financial Management 3 3 3 Substituted by COMF SOM 2010 3 0 Introduction to Information Systems 1021/1022P/2011 SOM 2020 Coding for Business 1 SOM 2500 3 3 Business Statistics MO 2600 Introduction to Business Analytics 1 SOM 2700 3 3 Operations Management ИARK 2120 Marketing Management 3 3 3 MARK 2120 is a major pre-requisite иGМТ 2010 Business Ethics and the Individual 2 2 2 иGМТ 2110 Organizational Behavior 3 3 3 **JIGMT** 2130 Business Ethics and Social Responsibility 2 2 0 Waived for DDP students BMT 1111 0 **Business Student Induction** ABU 2040 Business Case Analyses 3 3 2060 Effective Communication in Business ABU 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH матн 1003 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the 1003 1012 1013 MATH MATH (3) Calculus IB quirements of both BEng and BBA Accelerated Calculus MATH 1020 Honors Calculus I Required credits for School Requirements 45-46 39 Major Requirements Major Required Courses and Electives MARK Marketing Research 3220 MARK 3420 Consumer Behavior 4 4 MARK 4210 Strategic Marketing 4 4 ИARK MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) 12 Required credits for Major Required Courses and Electives 24 24 **Additional Requirements** Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities TEMG 0 TEMG 3950 3 3 Required credits for Additional Requirements **University CORE** U CORE - Others U CORE - English Language ORE C1 & C2 Sub-total for University CORE 36 36 19

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

^ Courses offered in summer term

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

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

20

* Courses offered in winter term

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

chool:		School of Engineering and School of Business Management		1		BEng ma	ajor	BBA maj	or	Student	t's Pathwa	ıv			
rogram:		Dual Degree Program (BEng in Aerospace Engineering and BBA in Manager	ment)							otago		.,			
			Т	_	Ye	i	Ye	i	Ύ _e	_	Ye		Ύe	(0)	
ourse ffering Dept.	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2	Year 2 Spring	Year 3	Year 3 Spring	Year 4 I	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
ourse code prefix)			8	Fall	pring	Fall	pring	Fa≣	pring	Fall	pring	Fall	pring	tal	
Eng in Aer	ospace Eng	ineering	ı	"									I		
ajor Require															
ngineering Funa	lamental Courses	Note: COMP1021 OR COMP1022P OR COMP2011	3-4	1	Т	:	1	:					1	$\overline{}$	Τ
OMP OMP	1021 1022P	Introduction to Computer Science Introduction to Computing with Java	3	3		!		!						3	This course will also be substitute ISOM 2
OMP NGG	1010	Programming with C++ Academic Orientation	0	0	0	! 		! 						0	
NG	2030	Technical Communication I	3						3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			i		i							
ATH ATH	1012 1013	Calculus IA Calculus IB	3	3	3	i		i						6	
ATH ATH ATH	1014 1020 1023	Calculus II Accelerated Calculus Honors Calculus I	3 4 3			į		į							
ATH	1024	Honors Calculus II	3			<u>į </u>		<u> </u>							
IATH	2011	Introduction to Multivariable Calculus Note: MATH2111 OR MATH2350 OR MATH2351	3			3		<u> </u>						3	
IATH IATH	2111 2350	Matrix Algebra and Applications Applied Linear Algebra and Differential Equations Introduction to Differential Equations	3			}	3	!						3	
ATH	2351	Note: PHYS1112 OR PHYS1312	3			╁		: 						+	
HYS HYS	1112 1312	General Physics I with Calculus Honors General Physics I	3 3		3	<u>i </u>		<u>i </u>						3	
HEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)			i						0	
ajor Required C	ourses and Electi	Required credits for Engineering Fundamental Courses ves	22-26			:		:						21	l
ECH	1907	Introduction to Aerospace Engineering	3	-		3	- 04	<u> </u>						3	
ECH	1990 2020	Industrial Training Statics and Dynamics	3			0* 3	0^	!						3	
CH	2040 2210	Solid Mechanics I Fluid Mechanics	3			!	3	!						3	
ECH	2310	Thermodynamics	3			3	3	:						3	
ECH ECH	2410 3400	Engineering Materials I Introduction to Composite Materials	3	-	+	÷		! 	3	3	-	+		3	
ECH	3610	Control Principles	3			i		3			_			3	
ECH ECH	3620 3640	Aircraft Design Aerodynamics	3		<u></u>	1		<u> </u>	L_	3	3	<u> </u>		3	
ECH	3650	Aircraft Structural Analysis	3			Ĭ				3				3	
ECH ECH	3660 3670	Gas Turbines and Jet Propulsion Aircraft Performance and Stability	3					<u>i </u>		3	3			3	
ECH ECH	3680 3690	Avionics Systems Aerospace Engineering Laboratory	3			ļ.		<u> </u>	3		3			3	
ECH	4980	Final Year Aerospace Design Project	6			!		;				3	3	6	
LEC NGG	2420	Basic Electronics Engineering Seminar Series	0	-		0	0	0	0					0	
ANG	4034	Technical Communication II for Mechanical and Areospace Engineering	3								3			3	
ECH	Re	MECH Electives in Aerospace (2 courses from the specified elective list) equired credits for Major Requirements Courses and Electives	6 63			! 		! 				3	3	63	
BBA in Man			<u> </u>		<u>'</u>			•				•	<u>'</u>		•
School Requir				11 0											1
ССТ	2010 2200	Principles of Accounting I Principles of Accounting II	3	3	3	i		i 						3	
CON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3	ļ		į .						3	
CON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3	-		!		!						+	
CON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			3		!						3	
NA	2303	Financial Management	3				3	:						3	Out that do not come
ОМ	2010	Introduction to Information Systems	3											0	Substituted by CO 1021/1022P/201
OM OM	2020 2500	Coding for Business Business Statistics	3	3				<u>1</u>						3	
OM OM	2600 2700	Introduction to Business Analytics Operations Management	1 3			<u> </u>		1					3	1 3	
ARK	2120	Marketing Management	3			<u>i </u>	3	<u>i </u>						3	
GMT GMT	2010	Business Ethics and the Individual Organizational Behavior	3	-		!	3	!						3	MGMT 2110 is a major p
GMT	2130	Business Ethics and Social Responsibility	2			! 		2						2	WGWT 2110 is a major pr
BMT	1111 2040	Business Student Induction	0											0	Waived for DDP stu
ABU ABU	2060	Business Case Analyses Effective Communication in Business	3			\		3			3			3	
ATH	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 tal
ATH ATH	1012 1013	Calculus IA Calculus IB	4 3	(3)		i		i						0	or MATH 1013 to sati
ATH ATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			<u>i — </u>		<u>i</u>							degrees
lajor Require	ments	Required credits for School Requirements	45-46			<u>i </u>		<u>: </u>						39	
	ourses and Electi														
		Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this	4			!		!							Students in the Con-
GMT	3110	requirement.) Human Resources Management	4			į		!	4					4	Students in the Cons Option must take MGM
GMT	3120	Managerial Leadership Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT	4			i 		! 						+	
GMT	3130	3140 to fulfill this requirement.) Judgement and Decision Making in Organizations	4			i		4						4	Students in the Cons Option must take MGN
GMT	3140	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate	3-4	-		!		! 				-		+	
		Note: MGM1 4210 OR MGM1 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					i		3				3	Students in the Cons Option must take MGM
GMT GMT	4210 4220	Corporate Strategy Entrepreneurship and Innovation	3 4			!		į		•					Students in the CSR must take MGMT
			<u> </u>			<u> </u>		i							Students in the Cons
		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	9			į		į		3	3	3		9	take MGMT 4220 and course in Simulating S
SMT .		requirement.)				i		!							to fulfill the major ele requirement
GMT			+	1				<u> </u>						20	roquirement
		Required credits for Major Required Courses and Electives	20-21												
dditional R	Requirement	S	20-21												
dditional R	for Dual Degi	S	20-21												
dditional Requirements	for Dual Degi s 1010	S	0	0	0	0	0	0	0	0	0	0	0	0	
Additional Requirements	for Dual Degi	S ree Program Technology and Management Professional Activities Case-based Problem Solving	0 3	0	0 3	0	0	0	0	0	0	0	0	3	
equirements equired Courses MG MG	for Dual Degi s 1010 3950	S ree Program Technology and Management Professional Activities	0 3	0		0	0	0	0	0	0	0	0	_	
Additional R Lequirements equired Courses LMG LMG Iniversity CO	1010 3950 RE C3 - C12	Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others	0 3 3 3	3	3	0	0	0	0	0	0	9	6	3 3	
dditional Requirements equired Courses MG MG niversity CO	s for Dual Degis s 1010 3950	ree Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	0 3 5 3				0			0	0			3 3	
dditional Requirements equired Courses MG MG miversity CO	1010 3950 RE C3 - C12	Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	0 3 5 3	3	3		0		6		0			3 3 30 6	

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

[^] Courses offered in summer term

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

>> 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.

Program:		Dual Degree Program (BEng in Aerospace Engineering and BBA in Finan	ce)												
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 Ae	rospace Eng	ineering	ļ			<u> </u>		<u> </u>							
Major Require	ements														
Engineering Fund	damental Courses						•	_		•			•		
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science	3-4 3	3		i		i						3	This course will also be used to
COMP COMP	1022P 2011	Introduction to Computing with Java Programming with C++	3 4	3		į		į						3	substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0	İ		į						0	
LANG	2030	Technical Communication I	3			<u> </u>		İ	3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7					ļ							
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3	3	3] :								6	
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4			:									
MATH MATH	1023 1024	Honors Calculus I Honors Calculus II	3			i		i							
MATH	2011	Introduction to Multivariable Calculus	3			3		i –						3	
MATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications	3			i	3	i						3	
MATH MATH	2350 2351	Applied Linear Algebra and Differential Equations Introduction to Differential Equations	3			į		į							
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3		3	<u> </u>		Ī						3	
PHYS	1312	Honors General Physics I	3		3	<u> </u>		ļ						3	
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)	<u>!</u>		!						0	
Major Required C	Courses and Electiv	Required credits for Engineering Fundamental Courses	22-26			<u> </u>		<u>. </u>						21	
MECH	1907	Introduction to Aerospace Engineering	3			3								3	
MECH MECH	1990 2020	Industrial Training Statics and Dynamics	0			0* 3	0^	1						0	ļ
MECH MECH	2020	Statics and Dynamics Solid Mechanics I	3	1		3	3	!	-					3	<u> </u>
MECH	2210	Fluid Mechanics	3			:	3	:						3	
MECH MECH	2310 2410	Thermodynamics Engineering Materials I	3	}		3			3					3	
MECH	3400	Introduction to Composite Materials	3			<u> </u>		İ	Ť	3				3	
MECH	3610	Control Principles	3					3	1		_			3	ļ
MECH MECH	3620 3640	Aircraft Design Aerodynamics	3	1		i		i	 	3	3			3	+
MECH	3650	Aircraft Structural Analysis	3			i		<u> </u>		3				3	1
MECH MECH	3660 3670	Gas Turbines and Jet Propulsion Aircraft Performance and Stability	3			<u> </u>		i	1	3	3			3	
MECH	3680	Avionics Systems	3			i 		i 	3	3				3	
MECH	3690	Aerospace Engineering Laboratory	3			<u> </u>		į			3		_	3	
MECH ELEC	4980 2420	Final Year Aerospace Design Project Basic Electronics	6			.		3				3	3	6	+
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
LANG MECH	4034	Technical Communication II for Mechanical and Areospace Engineering MECH Electives in Aerospace (2 courses from the specified elective list)	3 6			<u> </u>		<u> </u>			3	3	3	3 6	
MEGIT	Req	uired credits for Major Requirements Courses and Electives				!		!				3	3	63	
BBA in Fina	ance						•			•			•		
School Requi	irements														
ACCT ACCT	2010 2200	Principles of Accounting I	3			3		!	2					3	
ACCI		Principles of Accounting II Note: ECON 2103 OR ECON 2113	3			<u> </u>		<u> </u>	3					3	
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3			! !	3	:						3	
		Note: ECON 2123 OR ECON 3123	_			:								_	
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3			: 		3						3	
FINA	2303	Financial Management	3			<u> </u>	3	i						3	FINA 2303 is a major pre-requisite Substituted by COMP
ISOM	2010	Introduction to Information Systems	3											0	1021/1022P/2011
ISOM	2020 2500	Coding for Business Business Statistics	3			3		1 1						3	+
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM MARK	2700 2120	Operations Management	3			<u> </u>	3	<u>i </u>	3					3	
MGMT	2010	Marketing Management Business Ethics and the Individual	2			! 	3	2						2	
MGMT	2110	Organizational Behavior	3			<u> </u>	3							3	
MGMT SBMT	2130 1111	Business Ethics and Social Responsibility Business Student Induction	0			 		!	2					0	Waived for DDP students
LABU	2040	Business Case Analyses	3			<u> </u>		3						3	
LABU	2060	Effective Communication in Business	3	<u> </u>		!		!				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			! :		1	Ì				ĺ		DDP students should take MATH 1012 or MATH 1013 or MATH 102
MATH MATH	1012 1013	Calculus IA Calculus IB	3	(3)		:		!	Ì				ĺ	0	or MATH 1023 to satisfy the requirements of both BEng and
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			:		:	Ì	ĺ			ĺ		BBA degrees
		Required credits for School Requirements	45-46											39	<u> </u>
Major Require						_	_				_	_			
Major Required C	Courses and Electiv	/es Key Skills for Finance Professionals (A)	1 1	1		:		1	1		1			1	Τ
FINA	3103	Intermediate Investments	3	1		<u>!</u>		3	<u> </u>					3	
FINA	3203	Derivative Securities	3					<u>L</u>			3			3	
FINA	3303	Intermediate Corporate Finance	3			İ		İ		3				3	
FINA	3810	Bloomberg Market Concepts Certification	0	ļ		<u> </u>		0						0	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3			:		į	Ì	3			Ī	3	
ACCT ACCT	3020 3030	Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3 3	L		<u>!</u>	L	<u>i</u>	L	L			L	L	<u> </u>
IDOM	2022	Note: ISOM 3230 OR ISOM 3400	3			<u> </u>		[_						DDP students who took COMP
ISOM ISOM	3230 3400	Business Applications Programming Python Programming for Business Analytics	3			i		į	3				ĺ	3	1021 in BEng requirements are required to take ISOM 3230
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9					<u> </u>			3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28			:								25	
	Requirement														
	s for Dual Degr	ree Program													
Required Courses	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	T
TEMG	3950	Case-based Problem Solving	3	Ľ		3			Ľ	Ľ			Ľ	3	
11	-	Required credits for Additional Requirements	3											3	
University CC CORE	ORE C3 - C12	U CORE - Others	30	9	9	1	1			1	l	6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3	<u> </u>		<u> </u>						6	<u> </u>
		Sub-total for University CORE	36			<u>: </u>								36	
				10	18	21	21	Term load (e 20	xcl. free cred	dits)	18	18	16		
				18	Iδ	21	21		20 87##	18	18	18	15	ı	

Notes:

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

Courses offered in winter term

^ Courses offered in summer term
--- denotes the course/requirement is either waived or substituted

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

187##

<< Declaration of BEng major

BENG major

BENG major

An Example on Student's Pathway

AEFINA 2020-21 Intake (Via SBM Yr 1)

<< Declaration of BEng major BBA major BEng major School of Engineering and School of Business Management Student's Pathway School: rogram: Dual Degree Program (BEng in Aerospace Engineering and BBA in Finance) Remarks Offering Dept. (course code prefix) Course Code Course Title / Courses List BEng in Aerospace Engineering Major Requirements Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science Introduction to Computing with Java Programming with C++ This course will also be used to substitute ISOM 2010 3 NGG 1010 Academic Orientation 0 Substituted by SBMT 1111 LANG 2030 Technical Communication I 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 4-7 MATH MATH 1012 1013 1014 Calculus IB 3 6 MATH Calculus II MATH 1020 Accelerated Calculus MATH 1023 Ionors Calculus I lonors Calculus II MATH 024 MATH 2011 Introduction to Multivariable Calculus 3 3 Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications
Applied Linear Algebra and Differential Equations
Introduction to Differential Equations 3 3 3 MATH 2111 1 1 3 3 MATH MATH 2351 Note: PHYS1112 OR PHYS1312 General Physics I with Calculus Honors General Physics I HYS 1112 3 3 PHYS 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 Major Required Courses and Electives ИЕСН Industrial Training 0 0* 0 иЕСН Statics and Dynamics 3 3 MECH 2040 Solid Mechanics I 3 3 2210 MECH Fluid Mechanics Thermodynamics MECH 2310 3 3 MECH Engineering Materials I 3 MECH 3400 Introduction to Composite Materials 3 3 3 MECH 3610 Control Principles 3 3 Aircraft Design 3 MECH 3620 3 MECH 3 Aerodynamics 3 3650 Aircraft Structural Analysis 3 3 3 MECH 3660 Gas Turbines and Jet Propulsion 3 3 3 3 MECH 3670 Aircraft Performance and Stability 3 MECH Avionics Systems MECH 3690 Aerospace Engineering Laboratory 3 3 Final Year Aerospace Design Project МЕСН 6 6 ELEC 2420 Basic Electronics 3 3 Engineering Seminar Series ENGG 2010 0 0 Technical Communication II for Mechanical and Areospace Engineering LANG 4034 3 3 MECH MECH Electives in Aerospace (2 courses from the specified elective list) 6 6 Required credits for Major Requirements Courses and Electives 63 BBA in Finance School Requirements Principles of Accounting I Principles of Accounting II 3 Note: ECON 2103 OR ECON 2113 Principles of Microecon 3 CON 2103 3 3 ECON 2113 Note: ECON 2123 OR ECON 3123 CON 2123 3 3 3 ECON 3123 Macroeconomic Theory I FINA 2303 Financial Management 3 FINA 2303 is a major pre-requisite SOM 2010 ntroduction to Information Systems 3 1021/1022P/2011 ISOM 2020 Coding for Business 1 1 1 ISOM 3 Business Statistics 3 ISOM 2600 Introduction to Business Analytics ISOM 2700 Operations Management 3 3 3 MARK 2120 Marketing Management 3 IGMT 2 Business Ethics and the Individua Organizational Behavior MGMT 2110 3 3 MGMT 2130 Business Ethics and Social Responsibility 2 2 SBMT 1111 Business Student Induction 0 LABU 2040 Business Case Analyses 3 LABU 2060 Effective Communication in Business 3-4 3 4 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees MATH MATH MATH MATH MATH MATH (3) calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements 45-46 39 **Major Requirements** Major Required Courses and Electives Key Skills for Finance Professionals (A) FINA 3103 3 3 3 Intermediate Investments FINA Derivative Securities 3203 3 3 FINA 3303 Intermediate Corporate Finance 3 3 3 Bloomberg Market Concepts Certification FINA 3810 0 0 0 Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I Financial Accounting II Intermediate Financial Accounting for Non-Accounting 3-6 3 3 3 3 DDP students who took COMP 1021 in BEng requirements are required to take ISOM 3230 Note: ISOM 3230 OR ISOM 3400 3 3 3 3 3 Business Applications Programming Python Programming for Business Analytics 3230 3400 FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) FINA 9 3 9 **Additional Requirements** Requirements for Dual Degree Program Required Course Required credits for Additional Requirements University CORE C3 - C12 U CORE - Others 30 C1 & C2 U CORE - English Language 6 6 Sub-total for University CORE 36 21 18 18 18 20 << Declaration of BEng major BBA major

Notes

^ Courses offered in summer term

**Remarks on course(s):

BEng major

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

^{*} Courses offered in winter term

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

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

>> 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 Depart

English Language Requirements of SENG, SBM and DDP students

4Y

SENG SBM

DDP (AE+ECON/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
							Technical Communication II for Mechanical and Areospace Engineering	3	SENG requirement
	Total	12		Total	12		Total	18	

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. Pedro Sander Lector.

Co-director of Dual Degree Program in Technology & Management

Date:

10th February, 2021

Our Ref:

402/DDP

Subject:

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

(BSc in Integrative System and Design and BBA)

Dual Degree Program in Technology & Management (T&M-DDP) would like to propose the 5-year curriculum for BSc in Integrative System and Design and BBA with effect from Fall 2021-22. This change will have effect on the 2020-2021 cohort onwards. The new curriculum will include 5 new majors. The program structure is listed below.

			BBA in Economics			
Total			BBA in Finance			
Total:	BSc in Integrative System and Design	and	BBA in General Business Management			
5 new majors			BBA in Management			
121 700 1270 7 3			BBA in Marketing			

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 new majors for program-based admission students and three 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 of BSc in Integrative System and Design and BBA (See attachment A).

2. Additional Dual Degree Requirements

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

3. English Language Requirements

The English Language requirements of BSc in Integrative System and Design are a combination of the requirements of university, ISD, SENG 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.

For BSc in Integrative System and Design, students may reuse up to 9 credits of courses to count towards both the School Requirements and the University Common Core Requirements.

For BBA degree in all Dual Degree programs, students may reuse up to 6 credits of courses to count towards both the School Requirements and the University Common Core Requirements.

By combining the two degrees, students can double-count up to 15 credits. The total credits requirements are as follow:

Total Credits Requirements								
Without double-counting of Common Core	After double-counting of Common Core							
Requirements	Requirements is applied							
191-182	176-167							

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

School/Dept.	Approval	Name	Date
ISD	Yes / No	Prof. Chi Ming CHAN	22 Feb 2021
ECON	Yes / No	Prof. Wooyoung LIM	10 Feb 2021
FINA	Yes / No	Prof. Ekkachai SAENYASIRI	19 Feb 2021
MARK	Yes / No	Prof. Jiewen HONG	16 Feb 2021
MGMT	Yes / No	Prof. Yaping GONG	17 Feb 2021
SENG	Yes / No	Prof. Philip L. T. MOK, Associate Dean	18 Feb 2021
		of Engineering	
SBM	Yes / No	Prof. Allen HUANG, Associate Dean	19 Feb 2021
		(UG Programs)	

For consideration and approval please. Thank you very much.

Encl.

- A. Attachment A Deviation from Curriculum
- $B. \ \ Attachment \ B-Suggested \ pathways \ of \ Dual \ Degree \ programs \ of \ BSc \ in \ Integrative \ System \ and \ Design \ and \ BBA$
- C. Attachment C English language requirements of Dual Degree programs of BSc in Integrative System and Design and BBA

Deviation from curriculum

for Dual Degree Program

Degree Program 1: BSc in Integrative Systems and Design (ISD)

Degree Program 2: BBA in Economics (ECON) OR

BBA in Finance (FINA) OR

BBA in General Business Management (GBM) OR

BBA in Management (MGMT) OR

BBA in Marketing (MARK)

		nts specified for the program	Substituted/ Waived/		stituted course/ ement	
Degree Program	Course code/ requirement	Credits	Additional Req't/ Others	Course code/ requirement	Credits	Remarks
ECON/FINA/GBM/ MGMT/MARK	SBMT 1111	0	Waived	-	-	DDP students do not need to join this non-credit bearing development course originally designed for Business students
						[For non-SENG year 1 students admitted to T&M-DDP via School-based admission]
ISD	ENGG 1010	0	Substituted	SBMT 1111	0	DDP students do not need to join this non-credit bearing development course originally designed for Engineering students.
ISD	-	-	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
ISD	-	-	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 and COMP 1029P are similar coding courses as compared to ISOM 2020. Students should take one of these two COMP courses instead of ISOM 2020

(Via DDP PBA)

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

An Example on Student's Pathway

| << Declaration of | << Declaration of | BSc major | BBA major |

School: Program:															
Program:		School of Engineering and School of Business Management								Studen	t's Pathway				
		Dual Degree Program (BSc in Integrative Systems and Design and BBA in (Seneral												
		Business Management)	$\overline{}$	+-				•							-
				_ <	Yes	≾	Yea	≺	Yea	≺	Yea	≺	Yea	S	Damarka
Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
(course code prefix)	Course Code	Course Title / Courses List	dits	1 1 II	နှ	2 E	Sp	3 H	Sp	4 T	Sp	5 E	Sp	tota	
(ocaros ocas promit)			"	a	ring	a⊨	ring	a⊨	ring	a⊨	ring	a	ring	8	
DO - ! !4	4!	no and Danism						•							
		ms and Design													
Major Requiren	nents														
Engineering Funda	mental Courses														
0 0		Note: COMP1021 OR COMP1022P	Т	\Box	1	<u> </u>		·	1	1					
COMP	1021	Introduction to Computer Science	3	3		:		<u> </u>						3	This course will also be used to
COMP	1022P	Introduction to Computing with Java	3			!		ļ.							substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0	i		i						0	
LANG	2030	Technical Communication I	3	1				:	3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	4-7	1		!		<u> </u>	-						
		(MATH 1014 OR MATH 1024)] OR [MATH 1020]				l									
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3			i		i							
	1014	Calculus II	3	3	3	:		:						6	
MATH	1020	Accelerated Calculus	4			!		<u>!</u>							
MATH MATH	1023 1024	Honors Calculus I Honors Calculus II	3 3			i		i							
WATTI	1024	Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312	 	1		-		: 							
PHYS	1001	Physics and the Modern Society	3			!		!							
PHYS	1111	General Physics I	3		3	l		l						3	
	1112 1312	General Physics I with Calculus Honors General Physics I	3 3			i		i							
FIIIO	1012	Required credits for Engineering Fundamental Courses	1	╢——		<u> </u>		<u> </u>						45	
Major Required Co	urese and Elastic		13-16	11	<u> </u>	<u> </u>	1		<u> </u>	<u> </u>		<u> </u>	ĺ .	15	<u> </u>
			T ^	т —	I	3	1		Ι	ı	I	I	1		T
	1002	Redefining Problems for the Real Needs Sketching	3			1 1	+		 	 				3 1	
ISDN	1004	Human-centered Innovation	3	1		•	3	!	 	 				3	
	2001	Second Year Design Project I	1	1		<u> </u>	+ 3	1	 	 				1	
	2001	Second Year Design Project I	4	1		:	+	' '	4	 				4	
ISDN	2200	Systems Thinking and Design	3	1		3	+	: 	+	 				3	
	2300	Digital Design	3	1		3	+		 	 				3	
	2400	Physical Prototyping	3	₩—		3		i 	3					3	
ISDN	3001	Third Year Design Project I	4	╢		-		-	3	4				4	
	3002	Third Year Design Project II	4	╂		!		!		-	4			4	
	4001	Final Year Design Project I	5	1		⊢—		 			7	5		5	
ISDN	4002	Final Year Design Project II	5	╂		i		i 				0	5	5	
	4032	Technical Communication II for IEDA and ISDN	3	1		:		: 		3				3	
2,110	1002	Tooling Communication in the Edit and Tooling	ٺ	╢				! 							
ISDN/ENGG/IEDA		Design Electives (5 credits from the specified elective list)				İ		į .							DDP students could use FINA 230
ISDN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective list)	36			•	5	3	3	3	7	3	3	27	ISOM 2700 and MARK 2120 to satisfy the requirement of Produc
ISDN		Project-related Electives (22 credits from the specified elective list. Students should seek				:		! *					Ů		Management and Entrepreneursh
ISDIN		approval of their advisor for the choices of courses)				I		I							Electives
	Re	equired credits for Major Requirements Courses and Electives	78	1		i		;——						69	
BBA in Gono		s Management				•		•							
		s management													
School Require															
	2010	Principles of Accounting I	3			3		<u>: </u>						3	
ACCT	2200	Principles of Accounting II	3	┦——		<u>:</u>		<u>:</u>	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			3		!						3	
ECON	2113	Microeconomics	3			i		i						3	
		Note: ECON 2123 OR ECON 3123	$\overline{}$	1		:		:							
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			!		3						3	
ECON		Macroeconomic Theory I		╢			_	+						_	This course will also be used to
====	2303	Financial Management	3	II			3	:						3	substitute FINA 2203
FINA						<u> </u>								0	
	2010	Introduction to Information Systems	3					<u></u>						0	Substituted by COMP 1021/1022
ISOM ISOM	2020	Introduction to Information Systems Coding for Business	1								1			1	Substituted by COMP 1021/1022
ISOM ISOM	2020 2500					3		 			1				Substituted by COMP 1021/1022
ISOM ISOM ISOM	2020 2500 2600	Coding for Business Business Statistics Introduction to Business Analytics	1 3 1								1			1 3 1	Substituted by COMP 1021/1022
ISOM ISOM ISOM ISOM	2020 2500 2600 2700	Coding for Business Business Statistics Introduction to Business Analytics Operations Management	1 3 1 3						3					1 3 1 3	Substituted by COMP 1021/1022
ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management	1 3 1											1 3 1	Substituted by COMP 1021/1022
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT	2020 2500 2600 2700 2120 2010	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual	1 3 1 3 3 2				3							1 3 1 3 3 2	Substituted by COMP 1021/1022
ISOM ISOM ISOM ISOM ISOM MARK MGMT	2020 2500 2600 2700 2120 2010 2110	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior	1 3 1 3 3 2 3			3		 						1 3 1 3 3 2 3	Substituted by COMP 1021/1022
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT	2020 2500 2600 2700 2120 2010 2110 2130	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility	1 3 1 3 3 2 3 2			3	3	2	3		1			1 3 1 3 3 2 3 2	
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT	2020 2500 2600 2700 2120 2010 2110 2130 1111	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction	1 3 1 3 3 2 3 2 0			3	3	2						1 3 1 3 3 2 3 2 0	Substituted by COMP 1021/1022 Waived for DDP students
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses	1 3 1 3 3 2 3 2 0 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3	
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT	2020 2500 2600 2700 2120 2010 2110 2130 1111	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business	1 3 1 3 3 2 3 2 0 3 3 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0	
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	1 3 1 3 3 3 2 3 2 0 3 3 3 3 2			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3	Waived for DDP students
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business	1 3 1 3 3 2 3 2 0 3 3 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 1010
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT LABU LABU MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IB	1 3 1 3 3 2 3 2 0 3 3 3 3 3 3 2 3 3 3 3 3 3 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 1023 to satisfy the
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus	1 3 1 3 3 2 2 3 2 0 3 3 3 3 3 4 3 4 3 4			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 1010
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT LABU LABU MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I	1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 3 4 3 4 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3 3 3 0	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus	1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 3 4 3 4 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements	1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 3 4 3 4 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3 3 3 0	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements	1 3 1 3 3 2 3 2 0 3 3 3 3 3 4 3 4 3 4 3			3	3	2	3		1			1 3 1 3 3 2 3 2 0 3 3 3 0	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Provided Calculus I Required credits for School Requirements 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.)	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 4 3 4 4 5 4 5 6 6 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8 7 8			3	3	2	3		1	7		1 3 1 3 3 2 3 2 0 3 3 3 0	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 4 3 4 4 5 4 5 6 6 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8 7 8			3	3	2 3	3	3	1			1 3 1 3 3 2 3 2 0 3 3 2 0	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT SBMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ### Required Courses and Electives SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 4 3 4 4 5 4 5 6 6 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8 7 8			2	3	2 3	3	3	1			1 3 1 3 3 2 3 2 0 3 3 3 0 3 3 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM MARK MGMT MGMT MGMT MGMT LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 4 3 4 4 5 4 5 6 6 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8 7 8			2	3	2 3	3	3	1			1 3 1 3 3 2 3 2 0 3 3 3 0 3 3 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 4 3 4 4 5 4 5 6 6 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8 7 8			2	3	2 3	3	3	1			1 3 1 3 3 2 3 2 0 3 3 3 0 3 3 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degre	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Required credits for School Requirements Required credits for Major Required Courses and Electives Required credits for Major Required Courses and Electives Be Program	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 3 4 3 4 3 4 5 4 5 6 6 6 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	(3)		2	3 3	3	3	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 3 0 3 3 3 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Required credits for Major Required Courses and Electives Required credits for Major Required Courses and Electives Program Technology and Management Professional Activities	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 3 4 4 3 4 5 4 5 6 6 6 6 7 8 7 8 8 8 8 8 9 8 9 8 9 8 9 8 8 9 8 9			2	3	2 3	3	3	1			1 3 1 3 3 2 3 2 0 3 3 3 3 0 3 3 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degre	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Required credits for School Requirements Required credits for Major Required Courses and Electives Required credits for Major Required Courses and Electives Technology and Management Professional Activities Case-based Problem Solving	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 3 4 3 4 3 4 3 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(3)		2	3 3	3	3	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 3 0 3 3 9 2 9 2 9 2 9 2 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Required credits for Major Required Courses and Electives Required credits for Major Required Courses and Electives Program Technology and Management Professional Activities	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 3 4 3 4 3 4 3 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(3)		2	3 3	3	3	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 3 0 3 3 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Required credits for Major Required Courses and Electives Required Credits for Major Required Courses and Electives Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1020 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus IA Calculus IA Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required Credits for School Requirements Ees SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives Business Student Induction Required Credits for Additional Requirements Required Credits for Additional Requirements	1 3 1 3 3 2 3 2 0 3 3 3 3 4 3 4 3 4 4 3 4 5 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(3)		2	3 3 3	3	3	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 3 0 3 3 9 2 0 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950 RE C3 - C12	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives Be Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	1 3 3 1 3 3 2 0 3 2 0 3 3 3 4 3 4 3 4 4 3 4 5 6 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(3)	0 3	2	3 3	3	3	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 3 0 3 3 3 9 2 9 2 9 2 9 9 9 9 9 9 9 9 9 9 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives S Pe Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	1 3 3 1 3 3 2 0 3 3 2 0 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 3 4 5 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 8 7 8 8 8 8 7 8 8 8 8 8 7 8	(3)	0 3	2	3 3 3	3	3	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 0 3 3 0 3 3 3 2 0 3 3 3 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950 RE C3 - C12	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives Be Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	1 3 3 1 3 3 2 0 3 3 2 0 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 3 4 5 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 8 7 8 8 8 8 7 8 8 8 8 8 7 8	(3)	0 3	2	3 3 3	3	0	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 3 0 3 3 3 9 2 9 2 9 2 9 9 9 9 9 9 9 9 9 9 9	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950 RE C3 - C12	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives S Pe Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	1 3 3 1 3 3 2 0 3 3 2 0 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 3 4 5 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 8 7 8 8 8 8 7 8 8 8 8 8 7 8	(3)	0 3	2	3 3 3	2 3 3 6 10	3 3 0 xcl. free cree	3 3 dits)	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 0 3 3 0 3 3 3 2 0 3 3 3 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950 RE C3 - C12	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives S Pe Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	1 3 3 1 3 3 2 0 3 3 2 0 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 3 4 5 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 8 8 8 7 8 8 8 8 7 8 8 8 8 8 7 8	(3)	0 3	2	3 3 3	2 3 3 6 10 0 (e 21	0 0 xcl. free cree	3	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 0 3 3 0 3 3 3 2 0 3 3 3 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and
ISOM ISOM ISOM ISOM ISOM ISOM ISOM ISOM	2020 2500 2600 2700 2120 2010 2110 2130 1111 2040 2060 1003 1012 1013 1020 1023 ments urses and Electiv equirements for Dual Degree 1010 3950 RE C3 - C12	Coding for Business Business Statistics Introduction to Business Analytics Operations Management Marketing Management Business Ethics and the Individual Organizational Behavior Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements ES SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) Required Credits for Major Required Courses and Electives S Pe Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	1 3 3 1 3 3 2 0 3 3 2 0 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 4 5 6 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(3)	0 3	2	0	2 3 3 6 10 0 (e 21	0 0 xcl. free cree	3 3 dits)	3	7	10	1 3 1 3 3 2 3 2 0 3 3 3 0 3 3 0 3 3 3 2 0 3 3 3 3	Waived for DDP students DDP students should take MATH 1012 or MATH 1013 or MATH 100 or MATH 102 to satisfy the requirements of both BEng and

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

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

^{*} Courses offered in winter term

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

(Via DDP PBA)

IDFINA 2020-21 Intake

						<< Declar BSc majo		<< Declar							
School:		School of Engineering and School of Business Management				1		1		Student	t's Pathwa	у			
rogram:		Dual Degree Program (BSc in Integrative Systems and Design and BBA in F	inance)												
Course				∀	Yea		Yea	 	Yea	Ye	Yea	Ye	Yea	_ω	Remarks
Offering Dept. Course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	noma.no
				=	ing	<u> </u>	ing	<u> </u> ≝	ing	=	ing	=	ing	_	
3Sc in Integ ⁄Iajor Require	rative Syste	ms and Design													
Ingineering Funda	amental Courses														
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3		Ĭ		<u>i</u>						3	This course will also be used
COMP ENGG	1022P 1010	Introduction to Computing with Java Academic Orientation	3	0	0	<u> </u>		<u> </u>						0	substitute ISOM 2010
ANG	2030	Technical Communication I	3			1			3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			ļ		!							
MATH MATH	1012 1013	Calculus IA Calculus IB	3	3	3	!		!						6	
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4	3	3	!		!						0	
MATH MATH	1023 1024	Honors Calculus I Honors Calculus II	3			!		!							
PHYS	1001	Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312 Physics and the Modern Society	3			!		:							
PHYS	1111	General Physics I	3 3		3	!		!						3	
PHYS PHYS	1312	General Physics I with Calculus Honors General Physics I	3			<u> </u>		!							
Major Required Co	ourses and Electiv	Required credits for Engineering Fundamental Courses	13-16			<u>!</u>		<u>. </u>						15	
SDN	1002	Redefining Problems for the Real Needs	3			3								3	
SDN	1004 1006	Sketching Human-centered Innovation	1 3	 		1	3	-						1 3	
SDN SDN	1006 2001	Human-centered Innovation Second Year Design Project I	1	1	\perp	!	3	1				\perp	L	1	<u></u>
SDN	2002	Second Year Design Project II	4	1		-		:	4					4	
SDN SDN	2200	Systems Thinking and Design Digital Design	3	1-		3		: 	 		-	1		3	1
SDN	2400	Physical Prototyping	3	1		<u> </u>			3					3	
SDN SDN	3001 3002	Third Year Design Project I Third Year Design Project II	4	1				:	-	4	4	1		4	+
SDN	4001	Final Year Design Project I	5			; 		; 			Ė	5		5	1
SDN _ANG	4002 4032	Final Year Design Project II Technical Communication II for IEDA and ISDN	5	-		; 		; 		3			5	5	
SDN/ENGG/IEDA	1002	Design Electives (5 credits from the specified elective list)	<u> </u>			i		i		_					DDP students could use FINA 2
SDN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective list)	36			i	5	3	3	3	7	3	3	27	ISOM 2700 and MARK 2120 satisfy the requirement of Proc
SDN		Project-related Electives (22 credits from the specified elective list. Students should seek approval of their advisor for the choices of courses)				i		i							Management and Entrepreneur Electives
	R	equired credits for Major Requirements Courses and Electives	78					<u> </u>						69	
BBA in Fina	nce														
School Requir															
ACCT ACCT	2010	Principles of Accounting I Principles of Accounting II	3	╂		3		i 	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			3		i						3	
ECON	2113	Microeconomics	3	<u> </u>		<u>i</u>		<u>i </u>						3	
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			i		i 3						3	
ECON	3123	Macroeconomic Theory I	3	-		i 		<u>i — </u>							
SOM	2303	Financial Management Introduction to Information Systems	3			!	3	!						3	FINA 2303 is a major pre-requi
SOM	2020	Coding for Business	1			 		1						1	Substituted by COMP 1021/102
SOM	2500	Business Statistics	3	_		3		1						3	
SOM SOM	2600 2700	Introduction to Business Analytics Operations Management	3	1-		i		i '				3		3	
MARK	2120	Marketing Management	3			i 	3	二						3	
MGMT MGMT	2010	Business Ethics and the Individual Organizational Behavior	3	╂		! 	3	! 						3	
MGMT	2130	Business Ethics and Social Responsibility	2			į —		2						2	
ABU	1111	Business Student Induction Business Case Analyses	3			!		3						3	Waived for DDP students
_ABU	2060	Effective Communication in Business	3			<u> </u>					3			3	
матн	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4 3			į		į							DDP students should take MA
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3	(3)		!		!						0	1012 or MATH 1013 or MATH 1 or MATH 1023 to satisfy the
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			!		!							requirements of both BEng and degrees
	1	Required credits for School Requirements		1										39	
Major Require															
Major Required Co FINA	ourses and Electiv	Key Skills for Finance Professionals (A)	1	\Box		:		1	Π		Ι	Τ		1	
FINA	3103	Intermediate Investments	3	1-		i		3	<u> </u>			1		3	
FINA	3203	Derivative Securities	3					<u> </u>			3			3	
FINA	3303	Intermediate Corporate Finance	3			!		1		3				3	
FINA	3810	Bloomberg Market Concepts Certification	0	-		<u> </u>		0						0	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6 3			i		!		3				3	
ACCT ACCT	3020 3030	Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3			:		<u>!</u>							
	2220	Note: ISOM 3230 OR ISOM 3400	3			!		!							DDP students who took COMP
SOM SOM	3230 3400	Business Applications Programming Python Programming for Business Analytics	3 3			!		!	3					3	in BEng requirements are requ to take ISOM 3230
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9			i		<u> </u>			3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28					<u>!</u>						25	
	equirement														
	for Dual Degr	ee Program													
Required Courses	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	<u> </u>
TEMG	3950	Case-based Problem Solving	3		3									3	1
	DE	Required credits for Additional Requirements	3			!		!						3	
Iniversity CO	C3 - C12	U CORE - Others	30	9	6	, 		;		3		6	6	30	
University CO	03-012	,			3	! 	1	:		<u> </u>		1 -	1 -		†
	C1 & C2	U CORE - English Language	6	3	<u> </u>				-		<u> </u>	-	_	6	
CORE		U CORE - English Language Sub-total for University CORE		1 3	3	<u>i </u>		Term load (e	excl. free cred	dits)				36	
ORE				18	18	19	19	18	19	dits)	20	20	17		
ORE							19	18	19 87##		20	20	17		

--- denotes the course/requirement is either waived or substituted $\ensuremath{\mathit{##}}$ 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.

An Example on Student's Pathway

IDECON 2020-21 Intake
(Via DDP PBA)

						BSc majo	or	BBA maj)r						
School:		School of Engineering and School of Business Management								Studen	t's Pathway	<u> </u>			1
rogram:		Dual Degree Program (BSc in Integrative Systems and Design and BBA in Ed	conomics)												
				-	T	:		:							-
ourse ffering Dept. ourse code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall		Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
					g		g		g		ŋg		g		
		ns and Design													
lajor Requiren															
ngineering Fundar	mental Courses	Note: COMP1021 OR COMP1022P	1	11	1		ı		1		1	1	1	1	
OMP	1021	Introduction to Computer Science	3	3		İ		Ī						3	This course will also be use substitute ISOM 2010
OMP NGG	1022P 1010	Introduction to Computing with Java Academic Orientation	0	- 0	0	i		i 						0	
ANG	2030	Technical Communication I	3			i		i	3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			:		î							
ATH	1012	Calculus IA	4			:		į							
ATH ATH	1013 1014	Calculus IB Calculus II	3	3	3	!		!						6	
ATH ATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			!		ļ							
ATH	1024	Honors Calculus II Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312	3	<u> </u>		<u>!</u>		<u> </u>							
HYS	1001	Physics and the Modern Society	3			i		i							
HYS HYS	1111 1112	General Physics I General Physics I with Calculus	3 3		3	i		i						3	
HYS	1312	Honors General Physics I	3	<u> </u>		. 		! 							
lajor Required Cou	urses and Elective	Required credits for Engineering Fundamental Courses	13-16			!		<u>!</u>						15	
DN	1002	Redefining Problems for the Real Needs	3	1	I	3	1	:				I	I	3	
DN	1004	Sketching	1	1		1		<u>: </u>						1	
DN	1006	Human-centered Innovation	3				3							3	
DN	2001	Second Year Design Project I	1			<u>: </u>		1						1	
DN	2002	Second Year Design Project II	4	<u> </u>		-		i 	4		-	-		4	-
DN DN	2200	Systems Thinking and Design Digital Design	3	⊪—		3		! 			 			3	
DN .	2400	Physical Prototyping	3	1		:		!	3					3	
DN	3001	Third Year Design Project I	4					<u> </u>		4				4	
DN	3002	Third Year Design Project II	4					i			4			4	
DN	4001	Final Year Design Project I	5			i 		i				5		5	
DN ANG	4002 4032	Final Year Design Project II Technical Communication II for IEDA and ISDN	5	⊩—		-		}		3		 	5	5	-
	4032	Design Electives (5 credits from the specified elective list)	- 3	ऻ──		!		!		3				3	DDP students could use FINA
DN/ENGG/IEDA DN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective				!		ļ							ISOM 2700 and MARK 212
		list) Project-related Electives (22 credits from the specified elective list. Students should seek	36			!	5	3	3	3	7	3	3	27	satisfy the requirement of Pro Management and Entreprene
DN		approval of their advisor for the choices of courses)				<u>i</u>		j							Electives
		Required credits for Major Requirements Courses and Electives	78			i		ì						69	
BBA in Econ	omics														
School Require	ements														
ССТ	2010	Principles of Accounting I	3			3		;						3	
ССТ	2200	Principles of Accounting II	3	<u> </u>		<u>!</u>		<u>!</u>	3					3	
CON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3	i		i						3	
CON	2113	Microeconomics	3			<u>: </u>		<u> </u>							ECON 2103/2113/2123 is a m
CON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			3		i						3	prerequisite
CON	3123	Macroeconomic Theory I	3	ļ		<u>. </u>		<u>:</u>							
INA SOM	2303	Financial Management	3	⊩—		!	3	! 						0	Substituted by COMP 1021/10
SOM	2020	Introduction to Information Systems Coding for Business	1					1						1	Substituted by COMP 1021/10
SOM	2500	Business Statistics	3	ऻ──		3		i i						3	
SOM	2600	Introduction to Business Analytics	1			i		1						1	
SOM	2700	Operations Management	3					3						3	
ARK	2120	Marketing Management	3			<u>: </u>	3	<u>. </u>						3	
GMT GMT	2010	Business Ethics and the Individual Organizational Behavior	3	⊩—		!	3	<u> </u>						3	
GMT	2130	Business Ethics and Social Responsibility	2	l		!	3	2						2	
вмт	1111	Business Student Induction	0			i		<u> </u>						0	Waived for DDP students
ABU	2040	Business Case Analyses	3			i		3						3	
ABU	2060	Effective Communication in Business	3							3				3	
IATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4 3			:						1			DDP students should take MA
IATH	1012	Calculus IA	4	(3)		!		!				1		0	1012 or MATH 1013 or MATH or MATH 1023 to satisfy the
	1013	Calculus IB	3 4	` ` ′		!		ļ				ĺ			requirements of both BEng and
MATH MATH		Accelerated Calculus					I	:							degrees
MATH	1020 1023	Honors Calculus I	3	<u> </u>		<u>i</u>					1	1		39	
MATH MATH MATH	1020 1023		3			<u>i</u>		:							
iath iath Major Requiren	1020 1023 nents	Honors Calculus I Required credits for School Requirements	3			<u>i</u> :									
ATH ATH AATH Major Requiren Major Required Cou	nents urses and Elective	Honors Calculus I Required credits for School Requirements es	3 45-46			i									1
ATH ATH Major Requiren Major Required Cou CON	nents urses and Elective	Required credits for School Requirements Remainded Credits for School Requirements Remainded Credits for School Requirements Remainded Credits for School Requirements	3 45-46			<u>.</u>		4						4	
ATH ATH ATH Major Requiren Major Required Coucon CON	nents urses and Elective	Required credits for School Requirements S Managerial Microeconomics Managerial Macroeconomics	3 45-46 4 4			i 		4	4					4	
Major Requiren Major Required Con CON CON	1020 1023 ments urses and Elective 3014 3024 3334	Required credits for School Requirements S Managerial Microeconomics Introduction to Econometrics	3 45-46 4 4 4 4					4	4	4				4	
ATH ATH ATH Major Requiren Major Required Coucon CON CON CON CON	nents urses and Elective	Required credits for School Requirements S Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication	3 45-46 4 4 4 0			i		4	4	4		0		4 4 0	
ATH ATH ATH Major Requiren Major Required Coucon CON	1020 1023 ments urses and Elective 3014 3024 3334	Required credits for School Requirements S Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	3 45-46 4 4 4 0 11					4	4	4	4	0 4	3	4 4 0 11	
ATH ATH ATH AIJOR Requiren Aijor Required Coult CON CON CON CON CON CON CON CON	1020 1023 ments urses and Elective 3014 3024 3334 4670	Required credits for School Requirements S Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	3 45-46 4 4 4 0 11					4	4	4	4		3	4 4 0	
ATH ATH ATH Major Requiren Major Required Coucon CON CON CON CON CON CON CON CO	nents urses and Elective 3014 3024 3334 4670 equirements	Required credits for School Requirements Ses Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	3 45-46 4 4 4 0 11					4	4	4	4		3	4 4 0 11	
ATH ATH ATH Major Requiren Major Required Coucon CON CON CON CON CON CON CON CO	nents urses and Elective 3014 3024 3334 4670 equirements	Required credits for School Requirements Ses Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	3 45-46 4 4 4 0 11					4	4	4	4		3	4 4 0 11	
ATH ATH ATH ATH Major Required Major Required Coucon CON CON CON CON CON CON CON CO	ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree	Required credits for School Requirements Required credits for School Requirements Managerial Microeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives Be Program	3 45-46 4 4 4 0 111 123					 				4		4 4 0 11 23	
ATH ATH ATH ATH ATH Major Required Cotton CON CON CON CON CON CON CON CON CON CON	ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree	Required credits for School Requirements Required credits for School Requirements Ses Managerial Microeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities	3 45-46 4 4 4 0 111 123	0	-		0	0	0	4	4		3	4 4 0 111 23	
ATH ATH ATH ATH ATH Major Required Cotton CON CON CON CON CON CON CON CON CON CON	ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree	Required credits for School Requirements Required credits for School Requirements Ses Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving	3 45-46 4 4 4 0 11 11 5 23	0	0 3		0	 				4		4 4 0 0 11 11 23	
Major Requiren Major Required	ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree	Required credits for School Requirements Required credits for School Requirements Ses Managerial Microeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities	3 45-46 4 4 4 0 11 11 5 23	0		0	0	 				4		4 4 0 111 23	
ATH ATH ATH AIJOR Requiren Lajor Required Cotton CON CON CON Additional Re Required Courses EMG EMG Iniversity COR	ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree	Required credits for School Requirements Required credits for School Requirements Ses Managerial Microeconomics Managerial Macroeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving	3 45-46 4 4 4 0 11 11 5 23	0			0	 				4		4 4 0 0 11 11 23	
ATH ATH ATH Major Requiren Major Required Coucon CON CON CON CON CON CON CON CO	1020 1023 ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree	Required credits for School Requirements Required credits for School Requirements Ses Managerial Microeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - Others U CORE - English Language	3 45-46 4 4 4 0 11 11 5 23		3		0	 		0	0	0	0	4 4 0 11 23	
ATH ATH ATH ATH ATH AID REQUIRED Alajor Required Cotton CON CON CON CON Additional Re Required Courses EMG EMG Jniversity COR ORE	1020 1023 ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree 1010 3950	Required credits for School Requirements Required credits for School Requirements Managerial Microeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives Per Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	3 45-46 4 4 4 0 11 11 5 23	9	3			0	0	0	0	0	0	4 4 0 11 23 0 3 3 3	
ATH ATH ATH lajor Requiren ajor Required Cou DON DON DON Additional Re Required Courses Ending Endired Courses Endired Course Endired C	1020 1023 ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree 1010 3950	Required credits for School Requirements Required credits for School Requirements Ses Managerial Microeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - Others U CORE - English Language	3 45-46 4 4 4 0 11 11 5 23	9 3	3 3 3			0	0	0 3 3	0	0 6	0	4 4 0 11 23	
ATH ATH ATH Major Requiren lajor Required Cotton CON CON CON CON CON CON CON CON CON CON	1020 1023 ments urses and Elective 3014 3024 3334 4670 equirements for Dual Degree 1010 3950	Required credits for School Requirements Required credits for School Requirements Ses Managerial Microeconomics Introduction to Econometrics Economics Research and Communication ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - Others U CORE - English Language	3 45-46 4 4 4 0 11 11 5 23	9	3	0		0 Term load (e	0	0	0	0	0	4 4 0 11 23	

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

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

An Example on Student's Pathway

IDMARK 2020-21 Intake (Via DDP PBA)

School: Program:				п		BSc majo	•	BBA maj	,,	- · · ·					
Program:		School of Engineering and School of Business Management								Student	's Pathway	/			
r rogram.		Dual Degree Program (BSc in Integrative Systems and Design and BBA in Marketing)													
						:		:							
Course				Ýe	Year 1 Spring	l _e	Year 2 Spring	l ≼ e	Year 3 Spring	Ύe	Year 4 Spring	Year 5 Fall	Year 5 Spring	ပ္	Remarks
Offering Dept.	Course Code	Course Title / Courses List	Credits	Year 1 Fall	r 1 0	Year 2 Fall	r 2 :	Year 3 Fall	r 3 0	Year 4 Fall	г 4 8	ar 5	r 5 c	Sub-total	rtomanto
(course code prefix)			lits	Fa	Sprii	Fall	Sprii	Fa	Sprii	Fa	Sprii	Fa	Sprii	otal	
				_	ng	-	ng	! -	gı	_	gr	_	р		
BSc in Integ	rative Syste	ms and Design				_						•			
Major Requirer															
Engineering Funda															
		Note: COMP1021 OR COMP1022P	Г			:		:							This course will also be used to
COMP COMP	1021 1022P	Introduction to Computer Science Introduction to Computing with Java	3	3		!		ļ.						3	substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0			<u> </u>						0	
LANG	2030	Technical Communication I	3			i		i	3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			i		;							
MATH	1012	Calculus IA	4			:									
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	ļ		ļ						6	
MATH	1014	Accelerated Calculus	4			i		İ							
MATH MATH	1023 1024	Honors Calculus I Honors Calculus II	3			i		i							
		Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312		1		:		:							
PHYS PHYS	1001 1111	Physics and the Modern Society General Physics I	3 3		3	!		!						3	
PHYS	1112	General Physics I with Calculus	3		•	<u>I</u>		İ							
PHYS	1312	Honors General Physics I Required credits for Engineering Fundamental Courses	3 13-16	 		i 		i 						15	
Major Required Co	ourses and Flecti		10-10	11		-		-						10	
ISDN	1002	Redefining Problems for the Real Needs	3			3		:						3	
ISDN	1004	Sketching	1	1		1		!						1	
ISDN	1006	Human-centered Innovation	3			<u> </u>	3							3	
ISDN	2001	Second Year Design Project I	1					1						1	
ISDN	2002	Second Year Design Project II	4					<u> </u>	4					4	
ISDN	2200	Systems Thinking and Design	3			3		<u> </u>						3	
ISDN	2300	Digital Design	3	⊩—	-	3		<u> </u>	-			-		3	
ISDN	2400	Physical Prototyping Third Year Design Project I	3	⊪——		i 		i 	3	4				3	
ISDN ISDN	3001 3002	Third Year Design Project II	4	⊪——		<u>. </u>				4	4			4	
ISDN	4001	Third Year Design Project II Final Year Design Project I	5	╢──		!		!			4	5		5	
ISDN	4001	Final Year Design Project II	5	╢──		 		! 					5	5	
LANG	4032	Technical Communication II for IEDA and ISDN	3	1		i —		i 		3				3	
		Design Electives (5 credits from the specified elective list)						i 							DDP students could use FINA 230
ISDN/ENGG/IEDA ISDN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective	'			:			_		_				ISOM 2700 and MARK 2120 to
		list) Project-related Electives (22 credits from the specified elective list. Students should seek	36			!	5	3	3	3	7	3	3	27	satisfy the requirement of Produ- Management and Entrepreneursh
ISDN		approval of their advisor for the choices of courses)	'			I		l							Electives
	R	equired credits for Major Requirements Courses and Electives	78			i		i						69	
BBA in Mark	etina				•						•	•	•	•	•
School Require															
ACCT	2010	Principles of Accounting I	3	П	ı	3	I	•	I	I	Ι		I	3	1
ACCT	2200	Principles of Accounting II	3	l		i		i 	3					3	
AOOT	2200	Note: ECON 2103 OR ECON 2113		╟──		. 		: 						-	
ECON	2103	Principles of Microeconomics	3			3		!						3	
ECON	2113	Microeconomics	3			<u>!</u>		<u>!</u>							
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			i		i 3						3	
ECON	3123	Macroeconomic Theory I	3			<u>i </u>		i							
FINA	2303	Financial Management	3				3	<u>: </u>						3	
ISOM	2010	Introduction to Information Systems	3			<u> </u>		<u> </u>						0	Substituted by COMP 1021/1022
ISOM	2020	Coding for Business	1	 				1						1	
ISOM	2500	Business Statistics	3			3		i 1						3	
ISOM ISOM	2600 2700	Introduction to Business Analytics Operations Management	3	-		<u> </u>		} '		3				3	
				╢──		!		! 		3					
MARK	2120	Marketing Management	3	.		<u>!</u>	3	<u>!</u>						3	MARK 2120 is a major pre-requis
MGMT	2010	Business Ethics and the Individual	2			2		i 						2	
MGMT MGMT	2110	Organizational Behavior	3	⊩—		i 	3	2						2	
	2130	Business Ethics and Social Responsibility Business Student Induction	0	<u> </u>		!								0	Waived for DDP students
	2040		3					3						3	TVAIVEG TOT DDF STUDENTS
SBMT LABU		IBusiness Case Analyses		II											i de la companya de l
LABU		Business Case Analyses Effective Communication in Business	3			<u> </u>		<u>; </u>			3			3	
	2060	Effective Communication in Business	3			!		<u>; </u>			3				
LABU LABU MATH	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3 3-4 3					;			3				
LABU LABU	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3 3-4	(3)				<u>;</u>			3				1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the
LABU MATH MATH MATH MATH	2060 1003 1012 1013 1020	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus	3 3-4 3 4 3 4	(3)							3			3	1012 or MATH 1013 or MATH 102 or MATH 1023 to satisfy the requirements of both BEng and
LABU MATH MATH MATH	2060 1003 1012 1013	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I	3 3-4 3 4 3 4 3	(3)							3			0	1012 or MATH 1013 or MATH 102 or MATH 1023 to satisfy the
LABU MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus	3 3-4 3 4 3 4 3	(3)							3			3	requirements of both BEng and
LABU MATH MATH MATH MATH MATH MATH MATH MAT	2060 1003 1012 1013 1020 1023 ments	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements	3 3-4 3 4 3 4 3	(3)							3			0	1012 or MATH 1013 or MATH 102 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MAT	1003 1012 1013 1020 1023 ments purses and Electi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements	3 3-4 3 4 3 4 3 45-46	(3)							3			0 39	1012 or MATH 1013 or MATH 102 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments purses and Election	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements //es Marketing Research	3 3-4 3 4 3 4 3 4 3 4 4 3	(3)							3			3 0 39	1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MAT	1003 1012 1013 1020 1023 ments purses and Electi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements	3 3-4 3 4 3 4 3 45-46	(3)					4		3			0 39	1012 or MATH 1013 or MATH 102 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments purses and Election	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements //es Marketing Research	3 3-4 3 4 3 4 3 4 3 4 4 3	(3)					4		3		4	3 0 39	1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MAT	2060 1003 1012 1013 1020 1023 ments purses and Electi 3220 3420	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior	3 3-4 3 4 3 4 3 4 4 3 4 4 4 4 4 4 4 4 4	(3)					4	4	3	4	4	39	1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments purses and Electi 3220 3420	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements /es Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	3 3-4 3 4 3 4 3 45-46	(3)					4	4		4	4	3 0 39 4 4 4 4	1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MARK MARK MARK MARK	2060 1003 1012 1013 1020 1023 ments burses and Electi 3220 3420 4210	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements //es Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives	3 3-4 3 4 3 4 3 45-46	(3)					4	4		4	4	39	1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MAT	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 equirement	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S	3 3-4 3 4 3 4 3 45-46	(3)					4	4		4	4	3 0 39 4 4 4 4	1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 equirement for Dual Degi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S	3 3-4 3 4 3 4 3 45-46	(3)					4	4		4	4	3 0 39 4 4 4 4	1012 or MATH 1013 or MATH 103 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 equirement for Dual Degi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S Tee Program	3 3-4 3 4 3 4 3 4 3 4 4 3 4 4 4 4 4 4 4					4			4			3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MARTH MARK MARK MARK MARK	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 4210 equirement for Dual Degi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S Tee Program Technology and Management Professional Activities	3 3-4 3 4 3 4 3 4 3 4 4 3 4 4 4 4 4 4 4	(3)	0		0		4	4		4	4	3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 equirement for Dual Degi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Wes Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving	3 3-4 3 4 3 4 3 45-46		0 3		0	4			4			3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MAT	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 equirement for Dual Degi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S Tee Program Technology and Management Professional Activities	3 3-4 3 4 3 4 3 45-46				0	4			4			3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 equirement for Dual Degi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S Tee Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	3 3-4 3 4 3 4 3 4 3 4 4 3 4 4 4 4 4 12 24	0	3			4		0	4	0	0	3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MAT	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 4210 1010 3950 RE C3 - C12	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S Tee Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	3 3-4 3 4 3 4 3 4 3 4 4 3 4 4 4 4 4 12 24	0	6		0	4			4			3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 equirement for Dual Degi	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	3 3-4 3 4 3 4 3 45-46	0	3			4		0	4	0	0	3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 4210 1010 3950 RE C3 - C12	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives S Tee Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements	3 3-4 3 4 3 4 3 45-46	0	6		3	4	0	0	4	0	0	3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 4210 1010 3950 RE C3 - C12	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	3 3-4 3 4 3 4 3 45-46	0 9 3	6 3	0	3	4 O Term load (e	0 vxcl. free crec	0 3 3	0	0	0	3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and
LABU LABU MATH MATH MATH MATH MATH MATH MATH MATH	2060 1003 1012 1013 1020 1023 ments Durses and Electi 3220 3420 4210 4210 1010 3950 RE C3 - C12	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I Required credits for School Requirements Ves Marketing Research Consumer Behavior Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives See Program Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements U CORE - Others U CORE - English Language	3 3-4 3 4 3 4 3 45-46	0	6		3	0 Term load (e	0	0	4	0	0	3 0 39 4 4 4 4 12 24	1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the requirements of both BEng and

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):

An Example on Student's Pathway << Declaration of |<< Declaration of</pre>

BSc major

BBA major

IDMGMT 2020-21 Intake (Via DDP PBA)

School:		School of Engineering and School of Business Management		П		BSc maj	JI	BBA maj	<i></i>	Student	t's Dathway	· · · · · · · · · · · · · · · · · · ·			
		Dual Degree Program (BSc in Integrative Systems and Design and BBA in								Studen	t's Pathwa	у			
Program:		Management)													
					~		~		~		~		~		
Course			Ω	Yea	ear	Yea	ear	Yea	ear	Yea	ear	Yea	ear	Sut	Remarks
Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall		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	
(course code prefix)			o,	a e	oring	a≝	oring	ä	oring	<u>a</u>	oring	a <u>.</u>	oring	<u>a</u>	
PCo in Inton	rotivo Cvoto	me and Decign													
		ms and Design													
Major Require															
Engineering Funda	mental Courses	Note: COMP1021 OR COMP1022P	I	П	_		I					1			1
COMP	1021	Introduction to Computer Science	3	3		ĺ		ĺ						3	This course will also be used t substitute ISOM 2010
COMP ENGG	1022P 1010	Introduction to Computing with Java Academic Orientation	0	0	0	i 								0	
LANG	2030	Technical Communication I	3	<u> </u>	<u> </u>	:		:	3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	4-7			:		:							
MATH	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4			ļ .		!							
MATH	1013 1014	Calculus IB Calculus II	3	3	3	i		i						6	
MATH MATH	1020	Accelerated Calculus	3 4			i		i							
MATH	1023 1024	Honors Calculus I	3			:		:							
MATH		Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312	3	1		! 		:							
PHYS PHYS	1001 1111	Physics and the Modern Society General Physics I	3		3	ļ.		<u>I</u>						3	
PHYS	1112	General Physics I with Calculus	3			i		i							
PHYS	1312	Honors General Physics Required credits for Engineering Fundamental Courses	13-16	╢──		i 								15	
Major Required Co	ourses and Electiv			-11	1	-			l						
ISDN	1002	Redefining Problems for the Real Needs	3			3		:						3	
ISDN	1004	Sketching	1			1		i						1	
ISDN	1006	Human-centered Innovation	3				3							3	
ISDN	2001	Second Year Design Project I	1	-	1	; 		1				1		1	
ISDN ISDN	2002	Second Year Design Project II Systems Thinking and Design	3	1	1	3		!	4		-			3	
ISDN	2300	Digital Design	3	1	 	+ 3 3		! 				1		3	
ISDN	2400	Physical Prototyping	3	1	1	i		1	3		1	1		3	
ISDN	3001	Third Year Design Project I	4			i		L		4				4	
ISDN	3002	Third Year Design Project II	4								4			4	
ISDN	4001	Final Year Design Project I	5									5		5	
ISDN	4002	Final Year Design Project II	5										5	5	
LANG	4032	Technical Communication II for IEDA and ISDN	3	-	-	i 		i 		3	-	1		3	
ISDN/ENGG/IEDA		Design Electives (5 credits from the specified elective list)				1		i				1			DDP students could use FINA
ISDN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective list)	36			!	5	3	3	3	7	3	3	27	2303, ISOM 2700 and MARK 27 to satisfy the requirement of
ISDN		Project-related Electives (22 credits from the specified elective list. Students should seek			1	!		ļ Ť			l			l	Product Management and
	<u></u>	approval of their advisor for the choices of courses)	L	<u></u>	<u>L</u> _	<u>i</u>	<u>L</u>	<u></u>	<u>L</u>	L_	<u>L</u> _			<u>L_</u>	Entrepreneurship Electives
		equired credits for Major Requirements Courses and Electives	78			ì		<u> </u>						69	
BBA in Mana	agement														
School Requir															
	2010	Principles of Accounting I	3	1		3								3	
ACCT	2200	Principles of Accounting II	3			i –			3					3	
		Note: ECON 2103 OR ECON 2113				:		:							
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3			3		:						3	
20014	2110	Note: ECON 2123 OR ECON 3123	-	1		<u>: </u>		<u>: </u>							
ECON	2123	Macroeconomics	3			i		3						3	
ECON	3123	Macroeconomic Theory I	3	┦		i 		i 							
FINA ISOM	2303	Financial Management Introduction to Information Systems	3	╂	-	!	3	<u>. </u>						3	Cubatta dad bu COMP 4004/400
ISOM	2020	Coding for Business	1			<u> </u>		1						0	Substituted by COMP 1021/102
ISOM	2500	Business Statistics	3	1		3		 						3	
ISOM	2600	Introduction to Business Analytics	1	1		一		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			i	3	i						3	MGMT 2110 is a major pre-requi
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			<u>!</u>		3						3	
LABU	2060	Effective Communication in Business	3			<u>i </u>		<u>i </u>			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		1	i		i			1	1		1	DDP students should take MAT
MATH	1012	Calculus IA	4	(3)		•		•						0	1012 or MATH 1013 or MATH 1 or MATH 1023 to satisfy the
MATH MATH	1013 1020	Calculus IB Accelerated Calculus	3 4	'-'	1	!		!						1	requirements of both BEng and
MATH	1023	Honors Calculus I	3	1	 	<u> </u>		<u>!</u>							BBA degrees
		Required credits for School Requirements	45-46			<u>: </u>		<u> </u>						39	
Major Require															
Major Required Co	ourses and Electiv			П			1					1			I
	1	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this	4			:		!			1	1		1	Object to the O
MGMT	2110	requirement.)			1	i		ļ.	4					4	Students in the Consulting Option must take MGMT 3120
MGMT MGMT	3110 3120	Human Resources Management Managerial Leadership	4		1	:		i							
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT	4	1		!		:							
MGMT	3130	3140 to fulfill this requirement.) Judgement and Decision Making in Organizations	4					4						4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Judgement and Decision Making in Organizations Negotiation	4		<u></u>	!		<u>!</u>			<u>L</u>			<u>L</u>	Option must take MGMT 3140
		Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate	3-4			ĭ		í							Students in the Consulting
		Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)				:		i		3				3	Option must take MGMT 4210
MGMT	4210	Corporate Strategy	3			i		:							Students in the CSR Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4	1	1	:		<u>!</u>			-			-	
	1	MONT 2000 level or above 51 and 100 an			1	!		I			1	1		1	Students in the Consulting Option are recommended to
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	9		1	i		i		3	3	3		9	take MGMT 4220 and a new
		requirement.)				!		:			ľ			<u> </u>	course in Simulating Strategy to fulfill the major elective
					<u>L</u>	i		<u>!</u>			<u></u>			<u></u> _	requirement
		Required credits for Major Required Courses and Electives	20-21					<u> </u>						20	
Additional R	equirement	3													
Requirements															
Required Courses	.o. Daai Degi														
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			<u> </u>								3	
University COF	RE														
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	1		<u>: </u>			L					36	
					1	1		Term load (e				T :-		-	
				18	18	19	19	19 1	20 82##	19	19	17	14	1	
						<< Decla	votion of							J	
Notes:						BEng ma	เลแบก 01 ก่อา	BBA maj	au011 01 or						
() indicates the never	-6.41	fulfill more than one requirement					-	•							

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

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

^ Courses offered in summer term

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

^{*} Courses offered in winter term

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

An Example on Student's Pathway

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

(Via SENG Yr 1)

IDFINA 2020-21 Intake

School:		School of Engineering and School of Business Management		1		BSC majo	<i>,</i>	IBBA majo	<u> </u>	Student	t's Pathwa	У			
Program:		Dual Degree Program (BSc in Integretive Systems and Design and BBA in F	inance)									,			
			1	-											
C				 	Yea	i _≴	Yea	i _≾	Yea	≼	Yea	≼	Yea	ဟ	Remarks
Course Offering Dept.	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
(course code prefix)			its	Fall	Sprir	Fa	Sprir	Fa	Sprir	Fa	Sprir	Fa	Sprir	otal	
					g		g		g		ij		g		
		ns and Design													
Major Requirer															
Engineering Funda	mental Courses			11		,—		,				1		1	ı
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3		ļ.		İ						3	This course will also be used to
COMP	1022P	Introduction to Computing with Java	3			<u>i </u>		<u>i</u>							substitute ISOM 2010
ENGG LANG	1010 2030	Academic Orientation Technical Communication I	3	0	0	i 			2					3	
LANG	2030	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	4-7	╂		: 		i 	3					3	
AAA TII	1010	(MATH 1014 OR MATH 1024)] OR [MATH 1020]				:		:							
MATH MATH	1012 1013	Calculus IA Calculus IB	3	3	3	!		!						6	
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4	"		!		!							
MATH	1023	Honors Calculus I	3			ļ .		!							
MATH	1024	Honors Calculus II Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312	3	╫──		i 		i 							
PHYS	1001	Physics and the Modern Society	3			i		i							
PHYS PHYS	1111 1112	General Physics I General Physics I with Calculus	3		3	ì		i						3	
PHYS	1312	Honors General Physics I	3	<u> </u>											
Maian Dannina d Oa		Required credits for Engineering Fundamental Courses	13-16			!		<u>. </u>						15	
Major Required Co	1002	Redefining Problems for the Real Needs	3	П	I	1 ₃	1		1	ı	Г	I		3	1
ISDN	1002	Sketching	1	1		1								1	
ISDN	1006	Human-centered Innovation	3				3							3	
ISDN	2001	Second Year Design Project I	1					1						1	
ISDN ISDN	2002	Second Year Design Project II Systems Thinking and Design	3	╂		3	-		4		-		-	3	
ISDN	2300	Digital Design	3	1		3 3			<u> </u>			l		3	
ISDN	2400	Physical Prototyping	3						3					3	
ISDN	3001	Third Year Design Project I	4							4				4	
ISDN ISDN	3002 4001	Third Year Design Project II	4	╢		!	-	<u> </u>	-		4	F	-	4	
ISDN	4001	Final Year Design Project I Final Year Design Project II	5 5	1		! 			 		 	5	5	5 5	
LANG	4032	Technical Communication II for IEDA and ISDN	3	1				<u> </u>		3			Ľ	3	
ISDN/ENGG/IEDA		Design Electives (5 credits from the specified elective list)				ï		i							DDP students could use FINA 2303
ISDN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective list)	36			i	5	3	3	3	7	3	3	27	ISOM 2700 and MARK 2120 to satisfy the requirement of Product
ISDN		Project-related Electives (22 credits from the specified elective list. Students should seek				:	"	Ů							Management and Entrepreneurship
		approval of their advisor for the choices of courses)		<u> </u>		!		<u>!</u>							Electives
DDA in Finan		quired credits for Major Requirements Courses and Electives	78											69	
BBA in Finar															
School Require															1
ACCT ACCT	2010	Principles of Accounting I	3	-		3			_					3	
ACCI	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3	╢——		: 			3					3	
ECON	2103	Principles of Microeconomics	3			!	3	!						3	
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3	1		!		!							
ECON	2123	Macroeconomics	3			!		3						3	
ECON	3123	Macroeconomic Theory I	3	╂			_							_	
FINA	2303	Financial Management	3	-		i	3	i—						3	FINA 2303 is a major pre-requisite
ISOM ISOM	2010	Introduction to Information Systems Coding for Business	3			i		1						0	Substituted by COMP 1021/1022P
ISOM	2500	Business Statistics	3	1		3		- 						3	
ISOM	2600	Introduction to Business Analytics	1					1						1	
ISOM	2700	Operations Management	3	 		<u>!</u>		<u>!</u>				3		3	
MARK MGMT	2120 2010	Marketing Management Business Ethics and the Individual	3 2	╢──		!	3	2						2	
MGMT	2110	Organizational Behavior	3	╫		!	3	<u> </u>						3	
MGMT	2130	Business Ethics and Social Responsibility	2			ì		i –		2				2	
SBMT	1111	Business Student Induction	0					<u> </u>						0	Waived for DDP students
LABU	2040	Business Case Analyses	3			. 		3						3	
LABU	2060	Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3 3-4	-		:	-	! 	-		3		 	3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3			!		!							DDP students should take MATH 1012 or MATH 1013 or MATH 1020
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3	(3)		!		!						0	or MATH 1023 to satisfy the
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			ļ .		!							requirements of both BEng and BBA degrees
WC111	1020	Required credits for School Requirements	-	1		i -	 		 		 			39	
Major Requirer	ments	aa a.aana tot aanaat teequitoitiatita	,5-40	п								-	-		!
Major Required Co		es													
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			!		l		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			:		ļ.		_				_	
ACCT	3020	Financial Accounting II	3			!		i		3				3	
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3	1		i 		` 	 			1			
ISOM	3230	Note: ISOM 3230 OR ISOM 3400 Business Applications Programming	3			:		i	3					3	DDP students who took COMP 102' in BEng requirements are required
ISOM	3400	Python Programming for Business Analytics	3			!		:							to take ISOM 3230
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9	1		i 		:			3	3	3	9	
	I	Required credits for Major Required Courses and Electives		1		:		! 	 		<u> </u>	1		25	
Additional R	equirements			П		1						1			l .
Requirements															
Required Courses	ioi Duai Degre	e i iogiani													
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 COF		Jugges and	I -	11	-					1		-	-		T
CORE	C3 - C12 C1 & C2	U CORE - Others U CORE - English Language	30 6	9	9	!	-	<u> </u>	-			6	6	30 6	
CORE					-	Ť			<u> </u>		 	<u> </u>		36	
CORE	01402	Sub-total for University CORE	1 30	II .	1										
CORE	01402	Sub-total for University CORE	30	L	<u> </u>			Term load (e	xcl. free cred	dits)		<u>. </u>			
CORE	014 02	Sub-total for University CORE	30	18	18	19	20	18	19	dits)	20	20	17		
CORE	01 & 02	Sub-total for University CORE	30	18	•		20	18	19 87##		20	20	17		
Notes:	1014 02	Sub-total for University CORE	30	18	<u>'</u>	19 << Declar BEng ma	20 ration of	18	19 87## ration of		20	20	17		

- () 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.

An Example on Student's Pathway

IDFINA 2020-21 Intake (Via SBM Yr 1)

Γ		I		П		BSc majo	or	BBA majo	or						
School:		School of Engineering and School of Business Management								Student	t's Pathwa	у			
Program:		Dual Degree Program (BSc in Integrative Systems and Design and BBA in F	inance)												
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	\(\frac{1}{2}\)	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
RSc in Intoqu	rativo Syston	ne and Docian			g		g		g		g		g		
Major Requirer		ns and Design													
Engineering Funda															
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3			i 3		i						3	This course will also be used to
COMP	1022P	Introduction to Computing with Java	3	<u> </u>		<u>i </u>		<u>i</u>							substitute ISOM 2010
ENGG LANG	1010 2030	Academic Orientation Technical Communication I	3	╂		i		 	3					3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	4-7	1		i		i	-						
MATH	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4			i		i							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	i		i						6	
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			i		i							
MATH	1024	Honors Calculus II	3	┨——		i		i 							
PHYS	1001	Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312 Physics and the Modern Society	3			i		i							
PHYS PHYS	1111 1112	General Physics I General Physics I with Calculus	3			i	3	i						3	
PHYS	1312	Honors General Physics I Required credits for Engineering Fundamental Courses	3 13-16	╂		i 		i 						15	
Major Required Co	urses and Elective		10-10	11			l		l		1			10	
ISDN ISDN	1002	Redefining Problems for the Real Needs Sketching	3	<u> </u>		3		i 						3	
ISDN	1004	Human-centered Innovation	3	╫──		† '	3	; 						3	
ISDN	2001	Second Year Design Project I	1					1						1	
ISDN ISDN	2002	Second Year Design Project II Systems Thinking and Design	3	-		3		i 	4		-			3	
ISDN	2300	Digital Design	3			3		<u> </u>						3	
ISDN ISDN	2400 3001	Physical Prototyping Third Year Design Project I	3 4	<u> </u>		i 		 	3	4				3	
ISDN	3001	Third Year Design Project I Third Year Design Project II	4	1-						4	4			4	
ISDN	4001	Final Year Design Project I	5			<u> </u>		<u> </u>				5		5	
ISDN LANG	4002 4032	Final Year Design Project II Technical Communication II for IEDA and ISDN	5	-		i 				3			5	5	
		Design Electives (5 credits from the specified elective list)	Ť	1		; 		; 							DDP students could use FINA 2303,
ISDN/ENGG/IEDA ISDN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective list)	36			i	5	3	3	3	7	3	3	27	ISOM 2700 and MARK 2120 to satisfy the requirement of Product
ISDN		Project-related Electives (22 credits from the specified elective list. Students should seek approval of their advisor for the choices of courses)				1		ľ	ľ	ľ					Management and Entrepreneurship Electives
	Re	guired credits for Major Requirements Courses and Electives	78	╢		!		! 						69	Electives
BBA in Finar		quinou oroano for major resquiromonio obuniose una miconifoc	1.0	11			I								
School Require															
ACCT	2010	Principles of Accounting I	3	3		:								3	
ACCT	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3	-		!		!	3					3	
ECON	2103	Principles of Microeconomics	3		3	!		!						3	
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3	1		<u>!</u>		!							
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3			!		3						3	
FINA	2303	Financial Management	3	╢		!	3	!						3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3			!		 						0	Substituted by COMP 1021/1022P
ISOM	2020	Coding for Business	1			!		1						1	
ISOM	2500 2600	Business Statistics Introduction to Business Analytics	3	┨──		3		1						3	
ISOM	2700	Operations Management	3			!		!	3					3	
MARK	2120	Marketing Management	3	<u> </u>		<u>. </u>	3	<u>!</u>						3	
MGMT MGMT	2010	Business Ethics and the Individual Organizational Behavior	3	╂	3	<u> </u>	2	! 						3	
MGMT	2130	Business Ethics and Social Responsibility	2			į		2						2	
SBMT LABU	1111	Business Student Induction Business Case Analyses	3	0	0	<u> </u>		3						3	Waived for DDP students
LABU	2060	Effective Communication in Business	3	╫──		i 		`			3			3	
MATU	4000	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4			i		i							DDP students should take MATH
MATH MATH	1003 1012	Calculus and Linear Algebra Calculus IA	3 4	(3)		i		i						0	1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the
MATH MATH	1013 1020	Calculus IB Accelerated Calculus	3			i		i							requirements of both BEng and BBA degrees
MATH	1023	Required credits for School Requirements	3 45-46	1-		i 		i 						39	9
Major Requirer	nents	q	1 .5 10	11	!					!				1 30	1
Major Required Co	urses and Elective														1
FINA	3001	Key Skills for Finance Professionals (A)	1			<u>: </u>		1						1	
FINA	3103	Intermediate Investments Derivative Securities	3	-		!		3			3			3	
FINA	3303	Derivative Securities Intermediate Corporate Finance	3	1-		! 		 		3	3			3	
FINA	3810	Bloomberg Market Concepts Certification	0	1		; 		0						0	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6	1		:		i –							
ACCT ACCT ACCT	3010 3020 3030	Financial Accounting I Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3 3 3			!		i		3				3	
		Intermediate Financial Accounting for Non-Accounting Majors Note: ISOM 3230 OR ISOM 3400	3			! 		<u>; </u>							DDP students who took COMP 1021
ISOM ISOM	3230 3400	Business Applications Programming Python Programming for Business Analytics	3 3			<u> </u>		!	3					3	in BEng requirements are required to take ISOM 3230
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9			i T					3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28					!						25	
Additional Ro															
Requirements Required Courses	ioi Duai Degre	E FIOYIAIII													
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving Required credits for Additional Requirements	3	-		3								3	
University COF	RE	Required credits for Additional Requirements	, s	11	1	<u>. </u>		' —		<u> </u>	1	-	1		1
CORE	C3 - C12	U CORE - Others	30	9	6					3		6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3	<u> </u>								6	
		Sub-total for University CORE	36	1		<u> </u>	L	Term load (e	xcl. free cred	l dits)	1	1		36	1
				18	18	19	19	18	22	19	20	17	17]	
						<< Declar	ration of	1: << Declar	87## ration of					J	
Notes:						BEng ma		BBA majo							
() indicates the reuse of	of the same course to fu	ulfill more than one requirement.				•		-							

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

^{*} Courses offered in winter term

[^] Courses offered in summer term

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

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

2020-21 Intake The Hong Kong University of Science and Technology <u>IDFINA</u> **Interdisciplinary Programs Office** (Via ISD Yr 1) An Example on Student's Pathway << Declaration of |<< Declaration of BSc major BBA major School of Engineering and School of Business Management School Dual Degree Program (BSc in Integrative Systems and Design and BBA in Finance) rogram Remarks Course Code Offering Dept. Course Title / Courses List course code prefix) **BSc in Integrative Systems and Design Major Requirements Engineering Fundamental Courses** lote: COMP1021 OR COMP1022F This course will also be used to substitute ISOM 2010 Introduction to Computer Science 022F Introduction to Computing with Java **ENGG** 1010 0 0 0 Academic Orientation 0 2030 LANG Technical Communication I 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB 1012 1013 MATH 3 3 MATH 1014 Calculus II Accelerated Calculus Honors Calculus I Honors Calculus II матн 1020 1023 1024 MATH MATH MATH Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312 Physics and the Modern Society General Physics I PHYS 1001 PHYS PHYS |1111 |1112 General Physics I with Calculus PHYS 1312 Honors General Physics I Required credits for Engineering Fundamental Courses 13-16 15 Major Required Courses and Electives 1002 Redefining Problems for the Real Needs 3 ISDN 1004 Sketching ISDN 1006 Human-centered Innovation 3 3 ISDN 2001 Second Year Design Project I ISDN 2002 Second Year Design Project II 4 4 4 ISDN 2200 Systems Thinking and Design 3 3 ISDN 2300 Digital Design 3 3 3 ISDN 2400 Physical Prototyping 3 3 ISDN 3001 Third Year Design Project I 4 4 4 ISDN 3002 Third Year Design Project II 4 4 4 ISDN 4001 Final Year Design Project I 5 5 5 ISDN 4002 Final Year Design Project II 5 5 Technical Communication II for IEDA and ISDN ANG 4032 3 3 3 Design Electives (5 credits from the specified elective list) DDP students could use FINA 2303 SDN/ENGG/JEDA ISOM 2700 and MARK 2120 to satisfy the requirement of Product nent and Entrepreneurship Electives (9 credits from the specified elective SDN/ENTR/IEDA/SBM Project-related Electives (22 credits from the specified elective list. Students should seek Management and Entrepreneurship approval of their advisor for the choices of courses) Electives Required credits for Major Requirements Courses and Electives 69 **BBA** in Finance **School Requirements** ACCT 2010 Principles of Accounting I 3 ACCT 2200 Principles of Accounting II 3 3 3 Note: ECON 2103 OR ECON 2113 3 2103 3 3 ECON Principles of Microeconomics ECON 2113 Note: ECON 2123 OR ECON 3123 Macroeconomic Theory I ECON 3123 INA 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 ISOM 2500 Business Statistics 3 3 ISOM 2600 Introduction to Business Analytics ISOM 2700 Operations Management 3 3 MARK 2120 Marketing Management 3 3 3 MGMT 2010 Business Ethics and the Individual 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 ABU 2040 Business Case Analyses 3 3 3 ABU 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 MATH 1003 Calculus and Linear Algebra 1012 or MATH 1013 or MATH 1020 MATH 1012 Calculus IA (3) 0 or MATH 1023 to satisfy the матн 1013 Calculus IB ments of both BEng and BBA MATH MATH 1020 1023 Accelerated Calculus Honors Calculus I degrees Required credits for School Requirements 39

Major Requirer Major Required Co	nents
Major Required Co	urses and Electives

FINA	3001	Key Skills for Finance Professionals (A)	1		:	1						1	
FINA	3103	Intermediate Investments	3		i	3						3	
FINA	3203	Derivative Securities	3						3			3	
FINA	3303	Intermediate Corporate Finance	3		!			3				3	
FINA	3810	Bloomberg Market Concepts Certification	0		i	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	
ISOM ISOM	3230 3400	Note: ISOM 3230 OR ISOM 3400 Business Applications Programming Python Programming for Business Analytics	3 3 3				3					3	DDP students who took COMP 1021 in BEng requirements are required to take ISOM 3230
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9		i				3	3	3	9	
		Required credits for Major Required Courses and Electives	25-28									25	

Additional Requirements

Requireme	ents for Dual [Degree Program													
Required Cou	urses														
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			i		i						3	
University	CORE														
				П										1	1

University CO	RE												
CORE	C3 - C12	U CORE - Others	30	6	6	3	3	:		6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3							6	
		Sub-total for University CORE	36					İ				36	
Term load (excl. free credits)									 I				

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.

>> 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.

English Language Requirements of SENG, SBM and DDP students

Technical Communication II for IEDA and ISDN

4**Y**

English Language

Technical Communication I

U Core

LANG 2030

LANG 4032

SENG
SBM
Course code_SENG
Course title_SENG
Credits_SENG
Course code_SBM
Course title_SBM
Credits_SBM

6

3

3

12

U Core

LABU 2040

LABU 2060

English Language

Business

Business Case Analyses

Effective Communication in

	DDP (ID+ECON/	/FINA/GBM/MGMT/MARK)		
Credits_SBM	Course code_DDP	Course title_DDP	Credits_DDP	Remarks
6	U Core	English Language	6	university requirement
3	LANG 2030	Technical Communication I	3	SENG requirement
3	LABU 2040	Business Case Analyses	3	SBM requirement
	LABU 2060	Effective Communication in Business	3	SBM requirement
	LANG 4032	Technical Communication II for IEDA and ISDN	3	SENG requirement

Total

18