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#### COMMITTEE ON UNDERGRADUATE STUDIES

Paper for: Discussion/Decision

Title: Major Program Changes to the BSc Program in Integrative Systems

and Design

Purpose: The School of Engineering submits a program change proposal for the

BSc program in Integrative Systems and Design. The program proposal is considered a major change and presented to CUS for consideration and

endorsement

Submitted by: School of Engineering

Prepared by: CUS Secretariat

#### **BACKGROUND**

1. In accordance with the guidelines laid down by the Senate, program change proposals that are identified by the CUS Secretariat as major changes in nature should be presented to the CUS for consideration and to the Senate for approval.

#### THE PROPOSAL

- 2. The BSc program in Integrative Systems and Design (ISDN), offered by the Division of Integrative Systems & Design (ISD), was approved by the Senate for introduction in 2018-19. ISD would like to propose a few key changes to enhance the program curriculum.
- 3. One of the major proposed curricular changes is the addition of three required fundamental technical courses, totaling 10 credits, as faculty members observe the need for second-year students to possess a common set of technical skills which are important for a good design of a system.
- 4. In connection with the addition of the required fundamental technical courses, the credits for Product Management and Entrepreneurship and Project-Related electives are reduced from 9 to 6 and from 22 to 15, respectively, to keep the number of credits for the curriculum to 120 credits. The reduction of credits for the Product Management and Entrepreneurship would not have much impact on the students' capabilities; and the reduction for Project-Related electives would be compensated by the addition of the required fundamental technical courses.
- 5. The proposal also comes with minor adjustments in the required fundamental courses and required design fundamental courses and design electives (see <u>Appendix</u>).

- 6. Despite the above changes, the total required credits for ISDN would be maintained at 120 credits (upon deduction of the allowable 9 reused credits of Common Core).
- 7. The full proposal presenting the details of the changes and the revised curricula of ISDN are given in the <u>Appendix</u>.
- 8. The curricula changes are proposed to take effect from Fall 2021-22 and be applicable to the student cohort of 2020-21 and thereafter. The new curriculum was presented to the 20 Year-1 students from 2020-21 cohort. Written consent about agreeing to the proposed changes was obtained from 19 students, except for the student who is on study leave from 7 September to 31 August 2022. The summary of written consent collected and a sample of the written consent are provided at Attachment to the Appendix.

### **ACTION SOUGHT**

9. CUS is invited to consider and recommend, as appropriate, to the Senate for approval the proposed major program changes to ISDN as presented in the <u>Appendix</u> for implementation in Fall 2021-22.

# THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY Changes to Existing Undergraduate Program

#### **Section 1: General Information**

a)	The program is a :	Major 📵	Minor O	Other O	
b)	Title: <u>l</u> ı	ntegrative Systems and	d Design		
c)	School/IPO recommending the change(s):		School of Er	ngineering	
d)	Offering Department(s):		Division of Integrative	e Systems & Design	
e)	Effective term for the change(s) proposed	d:	Fall 202	21-22	
f)	Changes proposed applicable to student of	cohorts of:	Intake of Fall 202	Intake of Fall 2020 and onward	
Sectio	on 2: Submission and Recommendation				
	Proposal Submission and Recommendate	tion			
	Offering Department/Program Unit	Position	Name	Date	
	Division of Integrative Systems & Design	Head of Dept	Prof Chi Ying TSUI	30-Nov-20	
	Recommending School/IPO	Position	Name	Date	
	School of Engineering	Associate Dean	Prof Philip K.T. MOK	30-Dec-20	
	Concurrence				
	School/Dept/Program Unit	Position	Name	Date	
	Dept of Computer Science and Engineering	UG Coordinator	Prof Qiong LUO	4-Dec-20	
	Center for Language Education	Director	Prof Melinda WHONG	4-Dec-20	
	Dept of Mathematics	UG Coordinator	Dr Tsz-Kin LAM	3-Dec-20	
	Dept of Physics	UG Coordinator	Prof Bradley A FOREMAN	<u>16-Dec-20</u>	
	Student Innovation for Global Health Technology	Director	Prof Ying CHAU	8-Dec-20	
	Dept of Industrial Engineering & Decision Analytics	UG Coordinator	Prof Jiheng ZHANG	3-Dec-20	
	Enterpreneurship (SSCI)	Associate Dean	Prof Pakwo LEUNG	3-Dec-20	
	Enterpreneurship (SBM)	Associate Dean	Prof Allen HUANG	7-Dec-20	
	Dept of Finance	UG Coordinator	Prof Ekkachai SAENYASIRI	3-Dec-20	
	Dept of Information Systems, Business Statistics & Operations Management - IS	UG Coordinator	Prof Garvin Percy DIAS	3-Dec-20	
	Dept of Information Systems, Business Statistics & Operations Management - OM	Head of Dept	Prof Shaohui ZHENG	3-Dec-20	
	Dept of Marketing	UG Coordinator	Prof Ralf VAN DER LANS	16-Dec-20	

## **Section 3: Recommended Change**

The fo	e following changes are recommended:			
	Change to the program title			
	New program title:			
	Change in enrollment requirements			
	Please specify the change:			
	Addition/deletion* of an Option, track or concentration	ation of a major	(*delete as appropriate)	
	Name of Option/track/concentration:			
X	Changes to required course(s)			
	ISDN 2601- Internet of Things: From Component	Add	☐ Remove	
	Skills to System Integration (3 credits)			
	ISDN 2602 - Mechatronic Systems Design with	Add	• Remove	
	Embedded Computing (3 credits)			
	ISDN 3601 - Mechanics and Materials (4 credits)	Add	• Remove	
	ISDN2700 (Previous Course Code: ISDN3200) -	Add	• Remove	
	Graphic Design (2 credits)			
	PHYS 1001 - Physics and the Modern Society	• Add	Remove	
X	Changes to elective requirements			
	ISDN 4330 - Ergonomics in Design (2 credits)	Add	☐ Remove	
	ISDN3200 - Graphic Design (2 credits)	□Add	Remove	
		□Add	☐ Remove	
		□Add	☐ Remove	
		□Add	☐ Remove	
		□Add	☐ Remove	

## X Credit changes

Course Code	Credit increase (+) or decrease (-)	Final Credit
Product Management and	-3	6
Entrepreneurship electives		
Project-related electives	-7	15
Design Electives	-2	3

## X Other changes

Course Code Changes	
ISDN 2300	Change Full title from "Digital Design" to "Introduction to 3D design"
	and Catalog description (with effective from Fall 21-22 stated in the
	course change proposal)
ISDN 3200	Change to ISDN 2700

## **Section 4: Documentation Required**

Please indicate if documentation is attached Reasons for proposing the changes a) X X Feedback from stakeholders, including student feedback b) Revised curriculum c) Revised sample student pathways d) Impact on educational objectives and intended learning outcomes e) f) Transitional arrangements

#### Reasons for proposing the changes

# 1. Addition of three required fundamental technical courses (ISDN 2601, 2602 and 3601)

The addition of these three fundamental technical courses is a result of our annual retreat on UG curriculum held on June 19, 2020. Faculty members discovered that our second-year students need a common set of technical skills, such as IoT, basic knowledge of mechatronic systems, materials, and materials properties as well as the responses of materials when they are subjected to loads. These skills are very important for a good design of a system.

## 2. Reduction of credits for Product Management and Entrepreneurship electives and Project-Related electives.

The credits of Product Management and Entrepreneurship electives and Project-Related electives are reduced from 9 to 6 and from 22 to 15, respectively because we add 10 credits of required fundamental technical courses and we want to keep the number of credits for the curriculum to 120 credits. The reduction of 3 credits for the product management and entrepreneurship electives was discussed by the UG Curriculum Committee which supports this decision because product management and entrepreneurship is a strong component in the yearlong project course, especially the 4<sup>th</sup> year project course. Hence, the reduction of 3 credits would not have much impact on the students' capabilities in this area. The reduction of 7 credits for the project-related electives would be more than compensated by an increase of 10 credits in fundamental technical skills. Students will be equipped with the necessary technical skills to handle the year-long projects.

# 3. Changing ISDN 3200 to ISDN 2700. Addition of ISDN 2700 as a required design fundamental course and Reduction of credits in Design Electives The change of ISDN 3200 to ISDN 2700 is proposed because this course will be offered to 2<sup>nd</sup> year students instead of 3<sup>rd</sup> year students.

Graphic design, which involves effective visualization of communication concepts, is one of the important components in visual communication. ISD students who possess graphic communication skill will show their new product ideas and new products much more effectively.

As ISDN 2700 is proposed to be changed from an elective to a required course (2 credits) and to keep the existing number of credits for the curriculum to be 120 credits, the credits for design electives will be reduced from 5 to 3 credits.

#### 4. Addition of ISDN 4330 as a design elective

The addition of ISDN 4330 will provide students more choices in the design elective.

# 5. Removal of PHYS 1001 as one of the choices for the required fundamental courses

The removal of PHYS 1001 as one of the choices for the fundamental courses because ISDN 3601 requires PHYS 1111 or PHYS 1112 or PHYS1312 as a prerequisite. This decision should make it clear to students that they should not take PHYS 1001 if they are qualified to take PHYS 1111 or PHYS 1112 or PHYS1312.

#### **Feedback from stakeholders**

The proposed new curriculum was presented to the 1<sup>st</sup> year students on Dec. 9, 2020. We have not received any objection from the students to the new curriculum. (Attachment)

## **BSc ISD Program curriculum** (Total 120 credits)

## (1) University Common Core: 36 credits

Common Core Areas	Credits		
	Required	Electives	
Humanities (H)	6		
Social Analysis (SA)	6	6	
Science and Technology (S&T)	6		
Quantitative Reasoning (QR)	3		
English Communication	6	Nil	
Chinese Communication	3	Nil	
Healthy Lifestyle	0	Nil	
Total credits	36		

## (2) Additional English Courses 6 credits

Course No.	Course Title	Credit(s)
LANG 2030	Technical Communication I	3
LANG 4032	Technical Communication II for IEDA and	3
	ISDN	
Total credits		6

## (3) Required Fundamental Courses 12 credits

Course No.	Course Title	Credit	Credits after
			common core
			course doubling
			counting
ENGG 1010	Academic Orientation	0	0
*MATH 1013	Calculus IB	3**	0
*,#MATH 1014	Calculus II	3	3
PHYS <del>1001</del> /1111/	Physics and the Modern	3**	0
1112/1312	<del>Society</del> /General Physics		
	I/General Physics I with Calculus/		
	Honors General Physics I		
COMP 1021/1022P	Introduction to Computer	3**	0
	Science/Introduction to		
	Computing with Java		
Total credits		12	3

<sup>\*\*</sup> These are common core course credits

\*Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]

## (4) Required Design Fundamental Courses: 18 credits

Course No.	Course Title	Credit(s)
ISDN 1002	Redefining problems for the real needs	3
ISDN 1004	Sketching	1
ISDN 1006	Human-centered Innovation	3
ISDN 2200	Systems Thinking and Design	3
ISDN 2300	Introduction to 3D Design	3
ISDN 2400	Physical Prototyping	3
ISDN 2700	Graphic Design	2
[Previous Course		
Code: ISDN3200]		
Total credits		18

## (5) Required Technical Fundamental Courses: 10 credits

Course No.	Course Title	Credit(s)
ISDN 2601	Internet of Things: From Component Skills to	3
	System Integration	
ISDN 2602	Mechatronic Systems Design with Embedded	3
	Computing	
ISDN 3601	Mechanics and Materials	4

## (6) Elective Design Courses – 3 credits from the list below

Course No.	Course Title	Credit(s)
**ENGG 1300	Design Thinking for Health Innovation	3
**ISDN 2000	What is Design and Why Design (a Common	3
	Core course)	
ISDN 2100	Storytelling in Design	1
ISDN 2500	Introduction to Systems Design Engineering	3
ISDN 3100	Design for Sustainability	2
ISDN 3300	Interaction Design	2
ISDN 4300	Materials Selection in Product Design	3
ISDN 4320	Design Thinking	3
ISDN 4330	Ergonomics in Design	2

<sup>#</sup> MATH 1014 can be replaced by another COMP course upon approval of the advisor.

IEDA 2150	Product Design	3
IEDA 4650	Engineering Psychology	3

# (7) Product Management and Entrepreneurship Elective Courses – 6 credits from the list below

Course No.	Course Title	Credit(s)
ENTR 3100	Industrial Landscape: Understanding the	3
	Elements to Start a Business	
FINA 2203	Fundamentals of Business Finance	3
IEDA 4170	Product Design and Lifecycle Management	3
ISDN 3350	Global Product Development	3
ISDN 3360	From Product Innovations to Successful	3
	Technology Startups	
ISDN 4200	Product Management	3
ISOM 1380	Technology and Innovation: Social and Business	3
	Perspectives	
ISOM 2030	Business Protections for Innovations	3
ISOM 2700	Operations Management	3
ISOM 4020	Innovation Management and Technology	3
	Entrepreneurship	
MARK 2120	Marketing Management	3

## (8) Project-based Courses – 23 credits

Course No.	Course Title	Credit(s)
ISDN- 2001	Second Year Design Project I	1
ISDN- 2002	Second Year Design Project II	4
ISDN- 3001	Third Year Design Project I	4
ISDN- 3002	Third Year Design Project II	4
ISDN- 4001	Final year Design Project I	5
ISDN- 4002	Final year Design Project II	5
Total credits		23

## (9) Project-related Elective Courses – 15 credits

## **Summary of requirements**

Requirement	Credits	Credits after common core course doubling counting
(1) University Common Core	36	36
(2) Additional English Courses	6	6
(3) Required Fundamental Courses	12	3
(4) Required Design Fundamental Courses	18	18
(5) Required Technical Fundamental Courses	10	10
(6) Elective Design Courses	3	3
(7) Product Management and Entrepreneurship	6	6
Elective Courses		
(8) Project-based Courses	23	23
(9) Project-related Elective Courses	15	15
Total	129	120

(For students admitted in 2020-21 under the 4-year degree)

## **BSc in Integrative Systems and Design**

In addition to the requirements of their major programs, students are required to complete the University requirements for graduation. For details please refer to the respective section on this website.

Some courses can be used to fulfill both Major and University Common Core Requirements. Students may reuse a maximum of 9 credits of these courses to count towards both Requirements.

Students may use no more than 6 credits earned from courses offered in pure online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

For students graduating with an additional major, they must take all the requirements specified for that major, within which they must complete at least 20 single-counted credits. These 20 credits cannot be used to fulfill any other requirements for graduation except for the 120-credit degree requirement.

## **Major Requirements**

## Required Course(s)

				Credit(s) attained
	ISDN	1002	Redefining Problems for the Real Needs	3
	ISDN	1004	Sketching	1
	ISDN	1006	Human-centered Innovation	3
	ISDN	2001	Second Year Design Project I	1
	ISDN	2002	Second Year Design Project II	4
	ISDN	2200	Systems Thinking and Design	3
	ISDN	2300	Digital Design Introduction to 3D design (effective from Spring 20-21)	3
Add	ISDN	2400	Physical Prototyping Add: ISDN 2700 Graphic Design	3 2 4
	ISDN	3001	Third Year Design Project I	4
	ISDN	3002	Third Year Design Project II	4
	ISDN	4001	Final Year Design Project I	5
	ISDN	4002	Final Year Design Project II	5
	COMP		Note: COMP 1021 OR COMP 1022P	3
	COMP	1021	Introduction to Computer Science	3
	COMP	1022P	Introduction to Computing with Java	3
	ENGG	1010	Academic Orientation	0
	LANG	2030	Technical Communication I	3
	LANG	4032	Technical Communication II for IEDA and ISDN	3
	MATH		Note: [MATH 1012 <u>OR</u> MATH 1013 <u>OR</u> MATH 1023 <u>AND</u> (MATH 1014 <u>OR</u> MATH 1024)] <u>OR</u> [MATH 1020] (Subject to approval of the program office, MATH 1014/1024 may be replaced by a COMP course)	4-7
	MATH	1012	Calculus IA	4
	MATH	1013	Calculus IB	3
	ISDN	2601	Internet of Things : From Component Skills to System Integration	3
	ISDN	2602	Mechatronic Systems Design with Embedded Computing	3
	ISDN	3601 (4 <b>V</b> ) (2020-21 i	Mechanics and Materials	4

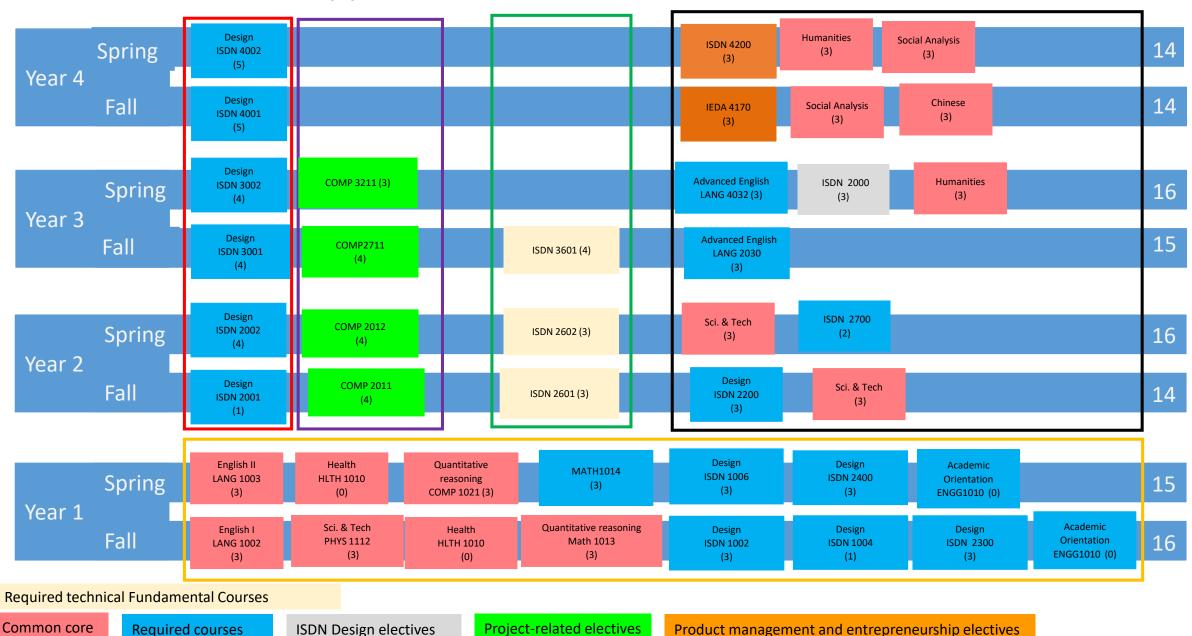
2020-21 ISDN (4Y) (2020-21 intake)

MATH	1014	Calculus II	3
MATH	1020	Accelerated Calculus	4
MATH	1023	Honors Calculus I	3
MATH	1024	Honors Calculus II	3
PHYS		Note: PHYS 1001 <u>OR</u> PHYS 1111 <u>OR</u> PHYS 1112 <u>OR</u> PHYS 1312	3
PHYS	1001	Physics and the Modern Society	3_
PHYS	1111	General Physics I	3
PHYS	1112	General Physics I with Calculus	3
PHYS	1312	Honors General Physics I	3

## Elective(s)

			Minimo credito require	(s)
ISDN/ENGG/ IEDA		Design Electives (Courses from the specified elective list)	5	3 (Reduced by 2 credits)
ISDN	2000	What is Design and Why Design?	3	
ISDN	2100	Storytelling in Design	1	
ISDN	2500	Introduction to Systems Design Engineering	3	
ISDN	3100	Design for Sustainability	2	
-ISDN	3200	Graphic Design	2	_
ISDN	3300	Interaction Design	2	
ISDN	4300	Materials Selection in Product Design	3	
ISDN	4320	Design Thinking	3	
ENGG	1300	Design Thinking for Health Innovation	3	
IEDA	2150	Product Design	3	
IEDA ISDN	4650 4330	Engineering Psychology Ergonomics in Design	3	
ISDN/ENTR/ IEDA/SBM		Product Management and Entrepreneurship Electives (Courses from the specified elective list)	9	6 (Reduced by 3 credits)
ISDN	3350	Global Product Development	3	
ISDN	3360	From Product Innovations to Successful Technology Startups	3	
ISDN	4200	Product Management	3	
ENTR	3100	Industrial Landscape: Understanding the Elements to Start a Business	3	
IEDA	4170	Product Design and Lifecycle Management	3	
FINA	2203	Fundamentals of Business Finance	3	
ISOM	1380	Technology and Innovation: Social and Business Perspectives	3	
ISOM	2030	Business Protections for Innovations	3	
ISOM	2700	Operations Management	3	
ISOM	4020	Innovation Management and Technology Entrepreneurship	3	
MARK	2120	Marketing Management	3	
ISDN		Project-related Electives (Courses from the specified elective list. Students should seek approval of their advisor for the choices of courses.)	<u>22</u>	15 (Reduced by 7 credits)

## Normative Study pattern for an ISD student (For 20-21 intake and onwards)



## The Hong Kong University of Science and Technology

## **School of Engineering**

An Example on Student's Pathway (as of Fall 2021-22)

<< Declaration of major

School:		School of Engineering		Student's Pathways (i.e. Study Pattern)									
Department:		Division of Integrative Systems and Design						Pathway	1				
Program:		BSc in Integrative Systems and Design		Background: HKDSE 4 Core + 2 Elec									
				Profile:									
Course	Course Code	Course Title / Courses List									I	1	
Offering						I !							
Dept													
(course code prefix)				~	Year 1	I ≺	Year 2	~	Year 3 Spring	<	Year 4 Spring		
pronx)			0	ear	7 1	ear	720	ear	٦ 3	ear	4 7	Sub	
			Credits	Year 1 Fal	Spring	Year 2 Fal	Spring	Year 3 Fal	Sprii	Year 4 Fal	Sprii	Sub-tota	
			its	<u>a</u>	ρſ	<u>a</u>	βι	all	gr	<u>a</u>	ρſ	<u> </u>	Remarks
Major Requ													
Major Required	d Courses and E			п			•	1		1			I
ISDN	1002	Redefining Problems for the Real Needs Sketching	3	3								3	
		9		1		! 						1	
ISDN ISDN	1006 2001	Human-centered Innovation Second Year Design Project I	3	-	3	1					-	3	
ISDN	2001	Second Year Design Project II	4	l		1						1	
ISDN	2002	Systems Thinking and Design	3			• •	4					4	
ISDN	2300	Digital Design	3			3	<u> </u>				<u> </u>	3	
ISDN	2400	Physical Prototyping	3	3		<u> </u>					<u> </u>	3	
ISDN ISDN	2601	Internet of Things: From Component Skills to System Integration	3		3							3	
ISDN	2602	Mechatronic Systems Design with Embedded Computing	3			3						3	
ISDN	2700	Graphic Design	2			<u>.                                    </u>	3					3	
ISDN	3001	Third Year Design Project I	4			<u> </u>	2					4	
ISDN	3002	Third Year Design Project II	4	-		<b>!</b>		4	4			<u> </u>	
ISDN	3601	Mechanics and Materials	4	-				4	4			4	
ISDN	4001	Final Year Design Project I	5	-		- - -		4		5		<b>4</b> 5	
ISDN	4002	Final Year Design Project II	5	-		<u></u>				5	5		
COMP	1002	Note: COMP 1021 OR COMP 1022P	3	l		<u> </u>					3	5	* Double count as common
COMP	1021	Introduction to Computer Science	3		3*							3	core course
COMP ENGG	1022P 1010	Introduction to Computing with Java Academic Orientation	3 0	<u> </u>									
LANG	2030	Technical Communication I	3	0	0	<u> </u>	-				-	0	
LANG	4032	Technical Communication II for IEDA and ISDN	3	-		<u> </u>		3				3	
MATH	1002	Note: [MATH 1012 OR MATH 1013 OR MATH 1023 AND	4-7	-					3			3	1) *MATH1013 - Double
IW/XIII		(MATH 1014 OR MATH 1024)] OR [MATH 1020] (Subject	"			- -							count as common core course
		to approval of the program office, MATH 1014/1024 may be replaced by a COMP course)				<b>■</b> ■							2) For students who chose
MATH	1012	Calculus IA	4										the technical stream of
MATH	1013	Calculus IB	3	3*	3							3	Computer Science,
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4			= 							MATH1014 is not a compulsory course.
MATH	1023	Honors Calculus I	3										, , , , , , , , , , , , , , , , , , , ,
MATH	1024	Honors Calculus II	3										
PHYS		Note: PHYS 1001 OR PHYS 1111 OR PHYS 1112 OR	3										* Double count as common
	1001	PHYS 1312 Physics and the Modern-Society	2			<u> </u>							core course
PHYS PHYS	<del>1001</del> 1111	General Physics I	3 3	3*		-    -						3	
PHYS	1112	General Physics I with Calculus	3			I							
PHYS	1312	Honors General Physics I	3			<u> </u>							
ISDN		Project-related Electives (Courses from the specified elective list. Students	15	<b> </b>		<u> </u>							
		should seek approval of their advisor for the choices of courses.)				4	4	4	3			15	
ISDN/ENGG/IEDA		Design Electives (Courses from the specified elective list)	3	<u> </u>		! 							
.55.,21100/1207			J						3			3	
ISDN/ENTR/IEDA/S	1	Product Management and Entrepreneurship Electives (Courses from the	6								<del>                                     </del>	<del>                                     </del>	
вм		specified elective list)				<u>.</u> I				3	3	6	
	Required	l credits for Major Required Courses and Electives	91-94			1 Y						90	
University (		Toronto for major required courses and Liectives	J1-34	<u> </u>		<u> </u>	Ļ	ļ		ļ	<u> </u>	30	
CORE	C3 - C12	U CORE - Others	30	l -	-		1 -	I	-	<u> </u>	T _		<u> </u>
CORE	C3 - C12	U CORE - English Language	30 6	6	-	3	3		3	6	6	30	
CORL	O1 & C2			3	3	<u>.                                    </u>					<u> </u>	6	
		Sub-total for University CORE	36	<u> </u>		<u> </u>	m local /-	ol fron	dite)	ļ	<u> </u>	36	
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				16	15	14	16	15 0 #	16	14	14	-	
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<sup>\*</sup> Courses offered in winter term

<sup>#</sup> To graduate, students should complete at least 120 credits in approved courses. They may need to take courses additional to the required and elective courses as specified above to meet this minimum credit requirement

<sup>&</sup>gt;> 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.

as of 16 Dec 2020

Progress of Collecting Written Consent from ISD Students (20-21 cohort)								
Student ID Student Name		Cohort Term	Current Academic Plan	Current Program Status	Provided Written Consent?	Remarks		
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Leave	N	<ul> <li>- Due to the commitment of National Service for Singapore Armed Forces, the student is taking studeave from 7 Sept 2020 to 31 Aug 2022.</li> <li>- ISD sent email to inform him about the proposed program changes, but his written consent is outstanding.</li> </ul>		
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Υ			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Υ			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Υ			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y			
		2020-21 Fall	BSc(ISD): 4Y	Active in Program	Y	- The student is taking PHYS1001 in Fall 20-21 - She provided her written consent and was well informed about the proposed program changes.		

## Agreement on the New Curriculum of the BSc in ISDN program

I agree with the changes made by the Division of Integrative Systems and Design (ISD) on the BSc ISDN program and I am well informed with the changes listed in the attached proposal and its impact to the students of 2020 21 cohort.

Student Name:
Signature:

Date: 10/12/2020