

The Hong Kong University of Science and Technology
School of Engineering/ Academy of Interdisciplinary Studies
 An Example on Student's Pathway (as of Fall 2022-23)

<< Declaration of major

School:		School of Engineering/ Academy of Interdisciplinary Studies			Student's Pathways (i.e. Study Pattern)								Remarks
Department:		Division of Integrative Systems and Design			Pathway 1								
Program:		BSc in Integrative Systems and Design + Extended Major in Digital Media and Creative Arts			Background: HKDSE 4 Core + 2 Elec Profile:								
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	Sub-total	
Major Requirements													
Major Required Courses and Electives													
ISDN	1002	Redefining Problems for the Real Needs	3	3								3	
ISDN	1004	Sketching	1	1								1	
ISDN	1006	Human-centered Innovation	3		3							3	
ISDN	2001	Second Year Design Project I	1			1						1	
ISDN	2002	Second Year Design Project II	4				4					4	
ISDN	2200	Systems Thinking and Design	3			3						3	
ISDN	2300	Introduction to 3D Design	3	3								3	
ISDN	2400	Physical Prototyping	3		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	5	
COMP		Note: COMP 1021 OR COMP 1022P OR COMP 2011 OR COMP 2012H	3-5										
COMP	1021	Introduction to Computer Science	3		3							3	
COMP	1022P	Introduction to Computing with Java	3										
COMP	2011	Programming with C++	4										
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5										
LANG	2030	Technical Communication I	3			3						3	
LANG	4032	Technical Communication II for IEDA and ISDN	3						3			3	
MATH		Note: [MATH 1012 OR MATH 1013 OR MATH 1023 AND (MATH 1014 OR MATH 1024)] OR [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	3	3							6	
MATH	1014	Calculus II	3										
MATH	1020	Accelerated Calculus	4										
MATH	1023	Honors Calculus I	3										
MATH	1024	Honors Calculus II	3										
PHYS		Note: PHYS 1101 OR PHYS 1111 OR PHYS 1112 OR PHYS 1312	3-4										
PHYS	1101	Introductory Physics	4	3								3	
PHYS	1111	General Physics I	3										
PHYS	1112	General Physics I with Calculus	3										
PHYS	1312	Honors General Physics I	3										
ISDN/ENGG/IEDA		Design Electives (Courses from the specified elective list)	5				2	3				5	
ISDN/ENTR/SBM		Product Management and Entrepreneurship Electives (Courses from the specified elective list)	9						3	3	3	9	
SENG/MATH		Project-related Electives (Courses from the specified elective list. Students should seek approval of their advisor for the choices of courses.)	22			6	3	6	2	3	2	22	
Required credits for Major Required Courses and Electives			91-97	13	12	13	9	13	12	11	10	93	
DMCA Requirements													
Recommended Background Courses													
COMP/ISOM		Note: COMP 1021 OR COMP 1022P OR ISOM 3230	3										
COMP	1021	Introduction to Computer Science	3		(3)							0	
COMP	1022P	Introduction to Computing with Java	3										
ISOM	3230	Business Applications Programming	3										
MATH		Note: MATH 1014 OR MATH 1020 OR MATH 1024	3-4										
MATH	1014	Calculus II	3		(3)							0	
MATH	1020	Accelerated Calculus	4										
MATH	1024	Honors Calculus II	3										
COMP		Note: COMP 2011 OR COMP 2012 OR COMP 2012H	4-5										
COMP	2011	Programming with C++	4				4					4	
COMP	2012	Object-Oriented Programming and Data Structures	4										
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5										
Required credits for DMCA Recommended Background Courses			10-12	0	0	0	4	0	0	0	0	4	
Major Required Courses and Electives													
EMIA	2010B	Cross-disciplinary Seminar in Digital Media and Creative Arts	0			0						0	
EMIA	2020	Cross-disciplinary Design Thinking	3						3			3	
EMIA	2200	Introduction to Digital Media	3					3				3	
EMIA		Note: EMIA 4990 OR EMIA 4991	0-3										
EMIA	4990	Interdisciplinary Capstone Project	0							0	0	0	
EMIA	4991	Interdisciplinary Capstone Project	3										
SBM/SENG/SSCI/IPO		Note: Students taking EMIA4990 should take a minimum of 12 credits; students taking EMIA4991 should take a minimum of 9 credits	12-15						6	3	3	12	
DMCA Electives													
Required credits for DMCA Required Courses and Electives			21	0	0	0	0	3	9	3	3	18	
University CORE (Revamped)													
CORE	C3 - C12	U CORE - Others	24	1	2	6	6	0	0	3	6	24	
CORE	C1 & C2	U CORE - English Language	6	3	3							6	
Sub-total for University CORE			30	4	5	6	6	0	0	3	6	30	
Term load (excl. free credits)													
				17	17	19	19	16	21	17	19		
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Notes:

* Courses offered in winter term

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

>> 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 for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.