

Admission to AIS programs

School:			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		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	1001	Introduction to Integrative Systems and Design	3	3								3			
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	1010	Academic and Professional Development I	0	0	0							0			
ISDN	1011	Industrial Training	0									0	Students should take in Year 1 Winter		
ISDN	2001	Second Year Design Project I	1			1						1			
ISDN	2002	Second Year Design Project II	3				3					3			
ISDN	2010	Academic and Professional Development II	0		0	0						0			
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	2601	Exploring the World through Smart Mechatronics	3			3						3			
ISDN	2602	Internet of Things: Integrative System Design	3				3					3			
ISDN	2603	Materials, Shape and Design	3					3				3			
ISDN	3001	Third Year Design Project I	3					3				3			
ISDN	3002	Third Year Design Project II	3						3			3			
ISDN	3010	Academic and Professional Development III	0					0	0			0			
ISDN	3200	Graphic Communication	2						2			2			
ISDN	4001	Final Year Design Project I	4							4		4			
ISDN	4002	Final Year Design Project II	4								4	4			
ISDN	4010	Academic and Professional Development IV	0							0	0	0			
COMP		Note: COMP 1021 OR COMP 1022P OR COMP 2011 OR COMP 2012H	3-5												
COMP	1021	Introduction to Computer Science	3									3			
COMP	1022P	Introduction to Computing with Java	3		3										
COMP	2011	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
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	1) For students who chose the technical stream of Computer Science, MATH 1014 is not a compulsory course.		
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												
PHYS	1111	General Physics I	3			3						3			
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
ISDN/ENTR/SBM/TEMG		Product Management and Entrepreneurship Electives (Courses from the specified elective list, of which at least 1 course must be at 3000-level or above.)	6							3	3	6			
ISDN/SENG/MATH		Project-related Electives (Courses from the specified elective list, of which at least 12 credits should be at 3000-level or above and no more than 3 credits at 1000-level. Students should seek approval of their advisor for the choices of courses.)	18				3	3	3	6	3	18			
Required credits for Major Required Courses and Electives			85-91									87			
University CORE															
CORE	C3 - C10	U CORE - Others	24	1	2	3	3	3	3	3	6	24			
CORE	C1 & C2	U CORE - English Language	6												
				3	3							6	Students who are required to take both English for University Studies (EUS) and English for Specific Academic Purposes (ESAP) shall take them in Y1 Fall and Y1 Spring respectively. For those who are required to take ESAP plus one Advanced Communication (AC) course, they will take ESAP in Y1 and the AC course in any term after completion of ESAP.		
Sub-total for University CORE			30									30			
Term load (excl. free credits)															
				14	17	13	15	15	14	16	13				
117#															

Note:

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.

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Major Required Courses and Electives														
ISDN	1001	Introduction to Integrative Systems and Design		3	3								3	
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	1010	Academic and Professional Development I		0	0	0							0	
ISDN	1011	Industrial Training		0									0	Students should take in Year 1 Winter
ISDN	2001	Second Year Design Project I		1			1						1	
ISDN	2002	Second Year Design Project II		3				3					3	
ISDN	2010	Academic and Professional Development II		0		0	0						0	
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	2601	Exploring the World through Smart Mechatronics		3			3						3	
ISDN	2602	Internet of Things: Integrative System Design		3				3					3	
ISDN	2603	Materials, Shape and Design		3					3				3	
ISDN	3001	Third Year Design Project I		3					3				3	
ISDN	3002	Third Year Design Project II		3						3			3	
ISDN	3010	Academic and Professional Development III		0				0	0				0	
ISDN	3200	Graphic Communication		2						2			2	
ISDN	4001	Final Year Design Project I		4							4		4	
ISDN	4002	Final Year Design Project II		4								4	4	
ISDN	4010	Academic and Professional Development IV		0						0	0		0	
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	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										
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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										
PHYS	1111	General Physics I		3		3							3	
PHYS	1112	General Physics I with Calculus		3										
PHYS	1312	Honors General Physics I		3										
ISDN/ENTR/SBM/TEMG		Product Management and Entrepreneurship Electives (Courses from the specified elective list, of which at least 1 course must be at 3000-level or above.)		6							3	3	6	
ISDN/SENG/MATH		Project-related Electives (Courses from the specified elective list, of which at least 12 credits should be at 3000-level or above and no more than 3 credits at 1000-level. Students should seek approval of their advisor for the choices of courses.)		18			3	3	3	6	3		18	
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