${\bf Suggested \, / \, Example \, \, Structure \, \, of \, BASc(AppliedAI) \, \, Curriculum^{1}({\rm for \, \, students \, \, admitted \, in \, } 2024)}$

Year		I		П	I	П	I	V	
Semester	One	Two	One	Two	One	Two	One	Two	
Disciplinary	APAI1001	MATH2014	COMP2119		MATH3904		one	1110	
Core	Artificial Intelligence:	Multivariable	Introduction to Data	COMP2120 ⁵ Computer Organization	Introduction to	COMP3340 ⁶ Applied Deep Learning			
	Foundation, Philosophy	Calculus and Linear	Structures and	Computer Organization	Optimization	Applied Deep Learning			
	and Ethics	Algebra	Algorithms		optimization				
					STAT3612				
	COMP1117	STAT2601	STAT2602		Statistical Machine				
	Computer Programming	Probability and	Probability and		Learning				
		Statistics I	Statistics II						
	MATH1013								
	University Mathematics								
	II								
		~~~							
Other		COMP2113			T3600 ⁴				
		Programming Technologies (Pre-			tical Analysis				
		requisite of COMP2119)			quisite/ of STAT3612)				
		requisite of Commercial			oth semesters)				
BASc Core (in	BASC9001	STAT1016	DESN9002	(avanable in c	At least 24 credits from the	he following courses in Li	ets A1-5 and B		
purple font)	Approaching	Data Science 101	Sustainable Leadership		(For fulfilling the require			least 18 credits, with at	
purple folit)	Interdisciplinarity:	(admission: 2023 and	(admission: 2020 and		least 6 credits of which sh				
	Knowledge Beyond	thereafter)	thereafter)		refer to the remarks bel		,	8 / 4	
and	Disciplines	<u> </u>	ĺ	1	AI Technology (List A1)				
	_				COMP3271	Computer Graphics			
Disciplinary					COMP3356	Robotics			
Elective				1	APAI3010	Image Processing and Co	mputer Vision		
(in deep blue					APAI4011	Natural Language Proces			
font)					APAI4012	High-performance compo			
					APAI4013	Applied high-performance		el programming	
					APAI4099	Special Topics of Applie	d AI		
					AI in Business and Fina	ce (List A2) Electronic Commerce Technology			
					COMP3320 MATH3901		cnnology		
					MATH3901 MATH3906	Operations Research I Financial Calculus			
					STAT3613	Marketing Analytics			
					STAT4601	Time Series Analysis			
					APAI4099	Special Topics of Applie	d AI		
					AI in Medicine (List A3)	pecial ropies of rippied in			
					STAT3655	Survival Analysis			
					STAT4610	Bayesian Learning			
					APAI3021	Modern Biostatistics			
					APAI4022	Omics Data Analysis			
					APAI4023	Medical Image Analysis			
					APAI4099	Special Topics of Applie	d AI		
					AI in Smart City (List A		1:11 5 1		
					URBS1003 URBS1005	Theories and Global Trei Urban Problems, Intervei			
					GEOG2090	Introduction to Geograph		ing	
					GEOG2147		Building Smart Cities with GIS		
					GEOG2156	Understanding Global Er		om Images	
					GEOG3202	GIS in Environmental Str			
					GEOG3420	Transport and Society			
					GEOG3430	Geospatial Data for Envi	ronmental Change		
					APAI4099	Special Topics of Applied AI			
					AI in Neurocognitive Sc				
				1	PSYC1001	Introduction to Psycholog	gy		
					PSYC2007	Cognitive Psychology			
					PSYC2051	Perception	Caianaa		
				1	PSYC2066 PSYC2067	Foundations of Cognitive Seminars in Cognitive Sc			
					APAI4099	Special Topics of Applie			
				1	List of Other Elective C		-		
					COMP3250	Design and Analysis of A			
					COMP3251 ⁷	Algorithm Design ⁷			
					COMP3252 ⁷	Algorithm Design and Ar	nalysis ⁷		
					COMP3232 COMP3278	Introduction to Database			
				1	MATH3600	Discrete mathematics	J		
					MATH3601	Numerical Analysis			
					MATH3911	Game Theory and Strates			
				1	MATH3943	Network Models in Oper			
					STAT3600	Linear Statistical Analysi	S		
				1	STAT3622	Data Visualization			
					STAT4602	Multivariate Data Analys			
Capstone ³	At least 6 credits selected from the following courses:								
	APAI3799 Directed Studies in Applied AI								
	APAI4766 Applied Al Internship APAI4708 Applied Al Project (12 credits)								
	APAI4798 Applied AI Project (12 credits)								
Common Core	24 credits of common core courses within the first three years, comprising one course from each area of inquiry								
Language				S9821	CSC	19001			
Courses	CAES1000 Core University English		CAES9821 Professional & Technical Communication for			or Science Students			
		oth semesters)		ical Sciences (offered in both semesters				1	
	(available III b			ooth semesters)		,	1	1	

## Remark: As one of the graduation requirements, students must fulfill at least one of the five concentrations by completing at least 18 credits of courses prescribed specially for each corresponding concentration. Students may declare concentration(s) in their senior years of study (e.g. year 3 or 4), and are recommended to pursue (a) AI Technology, and if applicable, supplemented with a second concentration from (b) to (e). Upon graduation, a certification letter confirming the completion of the chosen concentration(s) will be provided for students.

- Note 1: This table is for students' reference only for planning their studies ahead. Course offering semester and availability are subject to changes. Some courses are available in both semesters. Courses should be 6-credit bearing unless otherwise stated.
- Note 2: Candidates who have achieved Level 5 or above in English Language in the Hong Kong Diploma of Secondary Education Examination (HKDSE), or equivalent, are exempted from taking "CAES1000 Core University English". Candidates who are not exempted from Core University English will be required to take CAES1000 as supplementary credits and will thereby be required to accumulate 246 credits for graduation from the University.
- Note 3: If students take the 12-credit "Applied AI Project", they do not need to take a 6-credit elective from the "List of Other Elective Courses" (List B) above. On the other hand, students who do not take the 12-credit "Applied AI Project" are allowed to take a course in one of the Concentrations as an elective.)
- Note 4: STAT3600 also appears in the "List of Other Elective Courses (List B)". It is counted towards the fulfillment of the 24-credit requirement (as stated above) of electives in the programme
- Note 5: Students may go for exchange in Year Two semester two and take the core course COMP2120 in Year Three or take a similar course overseas and transfer the credits back to HKU.
- Note 6: Students plan to go for exchange in Year Three semester two should take COMP3340 in Year 2 semester two or take a similar course overseas and transfer the credits back to HKU.
- Note 7: It is recommended that students opt for COMP3251 Algorithm design instead of COMP3252 Algorithm design and analysis when selecting elective courses between COMP3251 and COMP3252.