Suggested / Example Structure of BASc(AppliedAI) Curriculum¹ (for students admitted in 2023)

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Year	0	I	0		I		I	V IT	
Semester	One	1W0	One COMP2110	1 wo	Une MATH2004	1wo	One	Two	
Core	Artificial Intelligence	Probability and	Introduction to Data	COMP2120 Computer Organization	Introduction to	COMP3340 Applied Deep Learning			
cone	Foundation. Philosophy	Statistics I	Structures and	Computer Organization	Optimization	Applied Deep Leanning			
	and Ethics		Algorithms		*				
					STAT3612				
	COMP1117		MATH2014		Statistical Machine				
	Computer Programming		Calculus and Linear		Learning				
	MATH1013		Algebra						
	University Mathematics		Ũ						
	П		STAT2602						
			Probability and						
Other		COMP2113	Statistics II	STAT	1 13600 ⁴				
		Programming		Linear Statis	tical Analysis				
		Technologies (Pre-		(Co-re	quisite/				
		requisite of COMP2119)		Pre-requisite	of STAT3612)				
	D + C COOOT	CITE & TEL O I C	DECIMANA	(available in b	ooth semesters)				
BASC Core (in	Approaching	SIAII010 Data Sajanaa 101	DESN9002 Sustainable Londorship		At least 24 credits from the require	the following courses in Lis	sts A1-5 and B udents should choose at	least 18 credite with at	
purple lont)	Interdisciplinarity:	(admission: 2023 and	(admission: 2020 and		least 6 credits of which should be at advanced-level, from the corresponding list) (please also refer				
	Knowledge Beyond	thereafter)	thereafter)		to the remarks below):				
and	Disciplines				AI Technology (List A1))			
					COMP3271	Computer Graphics			
Disciplinary					COMP3356 APA13010	Robotics	mputer Vision		
(in deep blue					APAI4011	Natural Language Proces	sing		
font)					APAI4012	High-performance comp	iting: algorithms and app	olications	
					APAI4013	Applied high-performance	e computing and paralle	l programming	
					APAI4099	VAI4099 Special Topics of Applied AI			
					AI in Business and Fina COMP3320	P3320 Electronic Commerce Technology			
					MATH3901	Operations Research I	ennorogy		
					MATH3906	Financial Calculus			
					STAT3613	Marketing Analytics			
					STAT4601	Time Series Analysis			
					AI in Medicine (List A3)	ine (List A3)			
					STAT3655	Survival Analysis			
					STAT4610	Bayesian Learning			
					APAI3021	Modern Biostatistics			
					APA14022 APA14023	Omics Data Analysis Madiaal Imaga Analysis	mics Data Analysis Iedical Image Analysis		
					APAI4025 APAI4099	Special Topics of Applied AI			
					AI in Smart City (List A4)				
					URBS1003	Theories and Global Trends in Urban Development			
					URBS1005	Urban Problems, Interver	tions and Design Think	ing	
					GEOG2090 GEOG2147	Introduction to Geographic Information Systems Building Smart Cities with GIS			
					GEOG2156	Understanding Global Environmental Changes from Images			
					GEOG3202	GIS in Environmental Studies			
					GEOG3420	Transport and Society			
					GEOG3430	Geospatial Data for Environmental Change			
					AI A14099 AI in Neurocognitive Sc	Lin Neurocognitive Science (List A5)			
					PSYC1001 Introduction to Psychology				
					PSYC2007	Cognitive Psychology	~		
					PSYC2051	Perception			
					PSYC2066 PSYC2067	Foundations of Cognitive	Science		
					APAI4099	Special Topics of Applie	d AI		
					List of Other Elective C	ourses (List B)			
					COMP3250	Design and Analysis of A	lgorithms		
					COMP3251 ⁷	Algorithm Design ⁷			
					COMP3252 ⁷	Algorithm Design and Ar	nalysis ⁷		
					COMP3278	Introduction to Database	Management Systems		
					MATH3600 MATH3601	Discrete mathematics			
					MATH3001 MATH3911	Game Theory and Strates	v		
					MATH3943	Network Models in Oper	ations Research		
					STAT3600	Linear Statistical Analysi	s		
					STAT3622	Data Visualization			
a 3	 				SIA14002	Multivariate Data Analys	15		
Capstone	At least 6 credits selected from the following courses:								
	APAI4766 Applied AI Internship								
				APAI4798 Applied AI Project (12 credits)					
Common Core	24 credits of common core courses within the first three years comprising one course of march area of invuing								
L									
Courses	CAES1000 ² CAES9821 Corre University English Professional & Technical Communication for				CSC Practical Chinaco f	19001 For Science Students			
Courses	Core Unive	asity EligiISD	Statistica	l Sciences	(offered in b	oth semesters)			
	(aranuble in both sellesters)		(available in both semesters)		(anoto in b	· · · · · · · · · · · · · · · · · · ·			

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. Remark: 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.

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 Note 1: 6-credit bearing unless otherwise stated.

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 Note 2: 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 12credit "Applied AI Project" are allowed to take a course in one of the Concentrations as an elective.) 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 4:

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 5: