Suggested / Example Structure of BASc(AppliedAI) Curriculum¹ (for students admitted in 2022)

*7		*						111
Year Semester	One	I Two	One	II Two	One	Two	One	Two
		1wo MATH2014					One	1 WO
Disciplinary	APAI1001		COMP2119	COMP2120 ⁵	MATH3904	COMP3340 ⁶		
Core	Artificial Intelligence:	Multivariable	Introduction to Data	Computer Organization	Introduction to	Applied Deep Learning		
	Foundation, Philosophy	Calculus and Linear	Structures and		Optimization			
	and Ethics	Algebra	Algorithms					
					STAT3612			
	COMP1117	STAT2601	STAT2602		Statistical Machine			
	Computer Programming	Probability and	Probability and		Learning			
		Statistics I	Statistics II		-			
	MATH1013							
	University Mathematics							
	II							
	11							
Orthouse		COMP2113						
Other					F3600 ⁴			
		Programming		Linear Statis	tical Analysis			
		Technologies (Pre-	(9)	(Co-re	quisite/			
		requisite of COMP2119)		Pre-requisite	of STAT3612)			
				(available in b	ooth semesters)			
BASc Core (in	STAT1005	BASC9001	DESN9002		At least 24 credits from t	he following courses in Li	sts A1-5 and B	
purple font)	Essential Skills for	Foundations of Human	Sustainable Leadership			ement of a concentration, si		t least 18 credits, with a
purpre rom)	Undergraduates:	Knowledge	(admission: 2020 and			hould be at advanced-level		
	Foundations of Data	Kilowicuge				nould be at advanced-level	, nom me correspondin	g list) (please also rele
			thereafter)		to the remarks below):			
and	Science (admission:				AI Technology (List A1			
	2020 and thereafter)				COMP3271	Computer Graphics		
Disciplinary					COMP3356	Robotics		
Elective					APAI3010	Image Processing and Co	mputer Vision	
(in deep blue					APAI4011	Natural Language Proces		
font)					APAI4012	High-performance compu		plications
					APAI4012	Applied high-performance		
					APAI4015 APAI4099			Programming
						Special Topics of Applie	d Al	
					AI in Business and Fina			
					COMP3320	Electronic Commerce Te	chnology	
					MATH3901	Operations Research I		
					MATH3906	Financial Calculus		
					STAT3613	Marketing Analytics		
					STAT4601	Time Series Analysis		
					APAI4099	Special Topics of Applie	dΔI	
					AI in Medicine (List A3		u / li	
					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			
					URBS1003	Theories and Global Tree	nds in Urban Developme	nt
					URBS1005	Urban Problems, Interver		
					GEOG2090			ing
						Introduction to Geograph		
					GEOG2147	Building Smart Cities wi		_
					GEOG2156	Understanding Global Er		om Images
					GEOG3202	GIS in Environmental St	udies	
					GEOG3420	Transport and Society		
					GEOG3430	Geospatial Data for Envir	ronmental Change	
					APAI4099	Special Topics of Applie		
					AI in Neurocognitive So			
					PSYC1001	Introduction to Psycholog	σv	
					PSYC2007	Cognitive Psychology	ov	
					PSYC2051	Perception		
					PSYC2066		Saianaa	
						Foundations of Cognitive		
					PSYC2067	Seminars in Cognitive Sc		
					APAI4099	Special Topics of Applie	d Al	
					List of Other Elective C			
					COMP3250	Design and Analysis of A	lgorithms	
					COMP32517	Algorithm Design ⁷		
					COMP3252 ⁷	Algorithm Design and A	palveie ⁷	
					COMP3252 COMP3278	Introduction to Database		
							management Systems	
					MATH3600	Discrete mathematics		
					MATH3601	Numerical Analysis		
					MATH3911	Game Theory and Strateg	gy	
		1			MATH3943	Network Models in Oper	ations Research	
				1	STAT3600	Linear Statistical Analysi		
					STAT3622	Data Visualization		
						Data Visualization Multivariate Data Analys	is	
					STAT4602	Multivariate Data Analys		
Capstone ³					STAT4602 At least 6 credits selected	Multivariate Data Analys		
Capstone ³					STAT4602 At least 6 credits selected APAI3799 Directed Stu	Multivariate Data Analys I from the following course dies in Applied AI		
Capstone ³					STAT4602 At least 6 credits selected	Multivariate Data Analys I from the following course dies in Applied AI		
Capstone ³					STAT4602 At least 6 credits selected APAI3799 Directed Stu	Multivariate Data Analys d from the following course dies in Applied AI internship		
	24	credits of common core or	purses within the first three	e years, comprising one co	STAT4602 At least 6 credits selected APAI3799 Directed Stu APAI4766 Applied AI I APAI4798 Applied AI I	Multivariate Data Analys I from the following course dies in Applied AI internship Project (12 credits)		I
Common Core		credits of common core co			STAT4602 At least 6 credits selected APAI3799 Directed Stu APAI4766 Applied AI I APAI4798 Applied AI I urse from each area of inq	Multivariate Data Analys I from the following course dies in Applied AI internship Project (12 credits) uiry		
Common Core Language		credits of common core of \$1000 ²		e years, comprising one co \$9821	STAT4602 At least 6 credits selected APAI3799 Directed Stu APAI4766 Applied AI I APAI4798 Applied AI I urse from each area of inq	Multivariate Data Analys I from the following course dies in Applied AI internship Project (12 credits)		
Common Core	CAE		CAE		STAT4602 At least 6 credits selected APAI3799 Directed Stu APAI4766 Applied A11 APAI4798 Applied A11 urse from each area of inq CSC	Multivariate Data Analys I from the following course dies in Applied AI internship Project (12 credits) uiry		
Common Core Language	CAE Core Unive	S1000 ²	CAE Professional & Techni	\$9821	STAT4602 At least 6 credits selected APA13799 Directed Stu APA14766 Applied ATI APA14798 Applied ATI urse from each area of inq CSC Practical Chinese	Multivariate Data Analys I from the following course dies in Applied AI nternship Project (12 credits) uiry 19001		

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.

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.

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: