Suggested / Example Structure of BASc(AppliedAI) Curriculum¹ (for students admitted in 2020 and 2021)

Year		I		п	1	п		IV
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary	APAI1001	MATH2014	COMP2119	COMP2120 ⁵	MATH3904	COMP3340 ⁶		1
Core		Multivariable						
ore	Artificial Intelligence:		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			
	F	Statistics I	Statistics II					
	3447771012	Statistics I	Statistics II					
	MATH1013							
	University Mathematics							
	П							
Other		COMP2113		STAT	Г3600 ⁴			
		Programming			tical Analysis			
		Technologies (Pre-			•			
					quisite/			
		requisite of COMP2119)			of STAT3612)			
				(available in b	both semesters)			
BASc Core (in	DESN9002	BASC9001	STAT1005		At least 24 credits from t	he following courses in Li	sts A1-5 and B	
	Sustainable Leadership	Foundations of Human	Essential Skills for			ment of a concentration, s		t leget 18 credite with
urple font)					· · · ·			
	(admission: 2020 and	Knowledge	Undergraduates:			hould be at advanced-level	, from the corresponding	ig list) (please also re
	thereafter)		Foundations of Data		to the remarks below):			
nd			Science (admission:		AI Technology (List A1)		
			2020 and thereafter)		COMP3271	Computer Graphics		
Disciplinary					COMP3356	Robotics		
	1			1			X7. 1	
lective				1	APAI3010	Image Processing and Co		
in deep blue				1	APAI4011	Natural Language Proces	sing	
ont)				1	APAI4012	High-performance compu	iting: algorithms and ar	plications
	1			1	APAI4013	Applied high-performance		
					APAI4099			er programming
						Special Topics of Applie	a Ai	
					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	d AI	
					AI in Medicine (List A3)		
					STAT3655	Survival Analysis		
					STAT4610	Bayesian Learning		
					APAI3021	Modern Biostatistics		
					APAI4022	Omics Data Analysis		
					APAI4023	Medical Image Analysis		
					APAI4099	Special Topics of Applie	ΔI	
					AI in Smart City (List A			
							I. S. ILL. D. I.	
					URBS1003	Theories and Global Tree		
					URBS1005	Urban Problems, Interver	ntions and Design Thin	king
					GEOG2090	Introduction to Geograph	ic Information Systems	
					GEOG2147	Building Smart Cities wi		
					GEOG2156	Understanding Global Er		The second
								rom mages
					GEOG3202	GIS in Environmental St	idies	
				1	GEOG3420	Transport and Society		
	1			1	GEOG3430	Geospatial Data for Envir	onmental Change	
	1			1	APAI4099	Special Topics of Applie		
	1			1	AI in Neurocognitive So			
				1				
				1	PSYC1001	Introduction to Psycholog	зy	
	1	1	1	1	PSYC2007	Cognitive Psychology		
	1	1	1	1	PSYC2051	Perception		
	1			1	PSYC2066	Foundations of Cognitive	Science	
				1	PSYC2067	Seminars in Cognitive Sc		
				1	APAI4099			
	1	1	1	1		Special Topics of Applie	u A1	
	1	1	1	1	List of Other Elective C			
	1			1	COMP3250	Design and Analysis of A	lgorithms	
				1	COMP32517	Algorithm Design ⁷		
				1	COMP3252 ⁷		alucio ⁷	
				1		Algorithm Design and Ar		
	1	1	1	1	COMP3278	Introduction to Database	management Systems	
		1	1	1	MATH3600	Discrete mathematics		
		1		1	MATH3601	Numerical Analysis		
			1		MATH3911	Game Theory and Strates	rv.	
					MATH3943	Network Models in Oper		
					STAT3600	Linear Statistical Analysi		
					STAT3600 STAT3622			
					STAT3600	Linear Statistical Analysi Data Visualization	S	
					STAT3600 STAT3622 STAT4602	Linear Statistical Analysi Data Visualization Multivariate Data Analysi	s is	
Capstone ³					STAT3600 STAT3622 STAT4602 At least 6 credits selected	Linear Statistical Analysi Data Visualization Multivariate Data Analysi I from the following course	s is	
Capstone ³					STAT3600 STAT3622 STAT4602	Linear Statistical Analysi Data Visualization Multivariate Data Analysi I from the following course	s is	
Capstone ³					STAT3600 STAT3622 STAT4602 At least 6 credits selected APAI3799 Directed Stu	Linear Statistical Analysi Data Visualization Multivariate Data Analysi from the following course dies in Applied AI	s is	
apstone ³					STAT3600 STAT3622 STAT4602 At least 6 credits selected APAI3799 Directed Stu APAI4766 Applied AI I	Linear Statistical Analysi Data Visualization Multivariate Data Analys I from the following course dies in Applied AI Internship	s is	
apstone ³					STAT3600 STAT3622 STAT4602 At least 6 credits selected APAI3799 Directed Stu	Linear Statistical Analysi Data Visualization Multivariate Data Analys I from the following course dies in Applied AI Internship	s is	
	24	credits of common core cr	purses within the first three	e years, comprising one co	STAT3600 STAT3622 STAT4602 At least 6 credits selected APAI3799 Directed Stu APAI4766 Applied AI 1 APAI4798 Applied AI 1	Linear Statistical Analysi Data Visualization Multivariate Data Analys I from the following course dies in Applied AI nternship roject (12 credits)	s is	
Common Core					STAT3600 STAT3622 STAT4602 At least 6 credits selected APA13799 Directed Stu APA14766 Applied AI 1 APA14798 Applied AI 1 urse from each area of inq	Linear Statistical Analysi Data Visualization Multivariate Data Analysi from the following course dies in Applied AI nternship roject (12 credits) uity	s is	
Common Core		credits of common core co	CAE	259821	STAT3600 STAT3622 STAT4602 At least 6 credits selected APA13799 Directed Stu APA14766 Applied AI 1 APA14768 Applied AI 1 urse from each area of inq CSC	Linear Statistical Analysi Data Visualization Multivariate Data Analys I from the following course dices in Applied AI internship roject (12 credits) uity 19001	s is	
Common Core	CAE		CAE		STAT3600 STAT3622 STAT4602 At least 6 credits selected APA13799 Directed Stu APA14766 Applied AI 1 APA14768 Applied AI 1 urse from each area of inq CSC	Linear Statistical Analysi Data Visualization Multivariate Data Analysi from the following course dies in Applied AI nternship roject (12 credits) uity	s is	
Capstone ³ Common Core Language Courses	CAE Core Unive	S1000 ²	CAE Professional & Techn	259821	STAT3600 STAT3622 STAT4602 At least 6 credits selected APA13799 Directed Stu APA14766 Applied AI 1 APA14768 Applied AI 1 urse from each area of inq CSC Practical Chinese	Linear Statistical Analysi Data Visualization Multivariate Data Analys I from the following course dices in Applied AI internship roject (12 credits) uity 19001	s is	

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: