THE UNIVERSITY OF HONG KONG 31 July 2023

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

Year		I		П		Ш		IV
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary	APAI1001	MATH2014	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	Computer Organization	Optimization	ripplied Deep Eculining		
	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							
Other		COMP2113		STAT	Γ3600 ⁴			
		Programming		Linear Statis	Linear Statistical Analysis (Co-requisite/ Pre-requisite of STAT3612)			
		Technologies (Pre-						
		requisite of COMP2119)						
				(available in b	ooth semesters)			
	STAT1005	BASC9001	DESN9002			he following courses in Lis		
purple font)	Essential skills for	Foundations of Human	Sustainable Leadership			ment of a concentration, st		
	undergraduates:	Knowledge	(admission: 2020 and		with at least 6 credits of	which should be at advance	d-level, from the co	rresponding list):
	foundations of data		thereafter)					
and	science (admission: 2020				AI Technology (List A1			
	and thereafter)				COMP3271	Computer Graphics		
Disciplinary					COMP3356	Robotics		
Elective					APAI3010	Image Processing and Co		
(in deep blue					APAI4011	Natural Language Proces	0	
font)					APAI4012 APAI4099	High-Performance Comp Special Topics of Applied		
					AI in Business and Fina		I AI	
					COMP3320	Electronic Commerce Technology		
					MATH3901	Operations Research I	amology	
					MATH3906	Financial Calculus		
					STAT3613	Marketing Analytics		
					STAT4601	Time Series Analysis		
					APAI4099	Special Topics of Applied	l 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 Applied	l AI	
					AI in Smart City (List A	A4)		
					URBS1003	Theories and Global Tren	ds in Urban Develo	pment
					URBS1005	Urban Problems, Interver	tions and Design Th	ninking
					GEOG2090	Introduction to Geograph		ems
					GEOG3202	GIS in Environmental Stu	idies	
					GEOG3420	Transport and Society		
					APAI4099	Special Topics of Applied	i Al	
					AI in Neurocognitive So			
					PSYC1001	Introduction to Psycholog	gy	
					PSYC2007	Cognitive Psychology		
					PSYC2051 PSYC2066	Perception Foundations of Cognitive	Science	
					PSYC2067	Seminars in Cognitive Sc		
					APAI4099	Special Topics of Applied		
					List of Other Elective C			
					COMP3250	Design and Analysis of A	lgorithms	
					COMP3278	Introduction to Database	•	ns
					MATH3601	Numerical Analysis	- Gamen System	
					MATH3911	Game Theory and Strateg	y	
					MATH3943	Network Models in Oper	•	
					STAT3600	Linear Statistical Analysi		
					STAT3622	Data Visualization		
					STAT4602	Multivariate Data Analys		
Capstone ³						from the following course	es:	
					APAI3799 Directed Stu			
					APAI4766 Applied AI			
					APAI4798 Applied AI	Project (12 credits)		
Common Core	24	credits of common core co	ourses within the first three	e years, comprising one co	urse from each area of ind	uiry		
					-			
	CAES1000 ²		CAES9821			CI9001	1	
Language			Professional & Technical Communication for					
Language Courses	Core Unive	rsity English			Practical Chinese			
	Core Unive	rsity English both semesters)	Mathemati	cal Communication for cal Sciences both semesters)		oth semesters)		

- 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.