Suggested / Example Structure of BASc(AppliedAI) Curriculum[1] for students in the academic year 2025-26

Year	I		II		III		IV	
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary Core	**ASAI1001** Artificial Intelligence: Foundation, Philosophy and Ethics **COMP1117** Computer Programming **MATH1013** University Mathematics II	**MATH2014** Multivariable Calculus and Linear Algebra **SDST2601** Probability and Statistics I	**COMP2119** Introduction to Data Structures and Algorithms **SDST2602** Probability and Statistics II	**COMP2120[5]** Computer Organization	**MATH3900** Optimization for AI and Data Analytics **SDST3612** Statistical Machine Learning	**COMP3340[6]** Applied Deep Learning		
Other		**COMP2113** Programming Technologies (Pre-requisite of COMP2119)		**SDST3600[4]** Linear SDSTistical Analysis (Co-requisite/ Pre-requisite of SDST3612) (available in both semesters)				
BASc Core (in purple font) and Disciplinary Elective (in deep blue font)	**BASC9001** Approaching Interdisciplinarity: Knowledge Beyond Disciplines	**SDST1016** Data Science 101 (admission: 2023 and thereafter)		**BASC9002** Interdisciplinary Leadership and Sustainable Development	At least 24 credits from the following courses in Lists A1-5 and B (For fulfilling the requirement of a concentration, students should choose at least 18 credits, with at least 6 credits of which should be at advanced-level, from the corresponding list) **(please also refer to the remarks below)**: **AI Technology** (List A1) **COMP3271** Computer Graphics **COMP3356** Robotics **ASAI3010** Image Processing and Computer Vision **ASAI4011** Natural Language Processing **ASAI4012** High-performance computing: algorithms and applications **ASAI4013** Applied high-performance computing and parallel programming **ASAI4099** Special Topics of Applied AI **AI in Business and Finance** (List A2) **COMP3320** Electronic Commerce Technology **MATH3901** Operations Research I **MATH3906** Financial Calculus **SDST3613** Marketing Analytics **SDST4601** Time Series Analysis **ASAI4099** Special Topics of Applied AI **AI in Medicine** (List A3) **SDST3655** Survival Analysis **SDST4610** Bayesian Learning **ASAI3021** Modern Biostatistics **ASAI4022** Omics Data Analysis **ASAI4023** Medical Image Analysis **ASAI4099** Special Topics of Applied AI **AI in Smart City** (List A4) **URBS1003** Theories and Global Trends in Urban Development **URBS1005** Urban Problems, Interventions and Design Thinking **GEOG2090** Introduction to Geographic Information Systems **GEOG2147** Building Smart Cities with GIS **GEOG2156** Introduction to Remote Sensing **GEOG3202** GIS in Environmental Studies **GEOG3420** Transport and Society **GEOG3430** Geospatial Data for Environmental Change **ASAI4099** Special Topics of Applied AI **AI in Neurocognitive Science** (List A5) **PSYC1001** Introduction to Psychology **PSYC2007** Cognitive Psychology **PSYC2051** Perception **PSYC2066** Foundations of Cognitive Science **PSYC2067** Seminars in Cognitive Science **ASAI4099** Special Topics of Applied AI **List of Other Elective Courses** (List B) **COMP3251[7]** Algorithm Design[7] **COMP3252[7]** Algorithm Design and Analysis[7] **COMP3278** Introduction to Database Management Systems **MATH3600** Discrete mathematics **MATH3601** Numerical Analysis **MATH3911** Game Theory and Strategy **MATH3943** Network Models in Operations Research **SDST3600** Linear Statistical Analysis **SDST3622** Data Visualization **SDST4602** Multivariate Data Analysis			
Capstone[3]					At least 6 credits selected from the following courses: **ASAI3799** Directed Studies in Applied AI **ASAI4766** Applied AI Internship **ASAI4798** Applied AI Project (12 credits)			
UG 5 Requirements	**Common Core** (24 credits of common core courses within the first three years, comprising one course from any four different areas of inquiry)							
	AILT1001[9] Artificial Intelligence Literacy I		**AILTXXXX** Artificial Intelligence Literacy II					
	CAES1001[2] Academic Communication in English (available in both semesters)		**CAES9821** Professional & Technical Communication for Statistical Sciences (available in both semesters)		**Chinese language enhancement course specified for the degree curriculum[8]** course code and title to be confirmed			

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: Unless otherwise exempted through having achieved Level 5 or above in English Language in the Hong Kong Diploma of Secondary Education Examination, or equivalent.

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: SDST3600 also appears in the "List of Other Elective Courses (List B)". It is counted towards the fulfillment of the 24-credit requirement (as SDSTed 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.

Note 8: Candidates should check with the School of Computing and Data Science for the course code and course title of the Chinese language enhancement course to satisfy the programme and graduation requirements. For those who did not study Chinese language during their secondary education and have not reached the required proficiency level for the Chinese language enhancement course specified for the degree curriculum, they are required to take a course in either Chinese language or Chinese culture offered by the Chinese Language Centre of the School of Chinese in lieu.

Note 9: All undergraduate students admitted from 2025-26 onwards (except those in the 2-year part-time Bachelor of Nursing programme) are required to take AILT1001. Students are highly encouraged to take AILT1001 in their first year (Semester 1 or 2) as it is a prerequisite for taking the second AI Literacy course required for graduation.

(Prepared by the School of Computing and Data Science)