THE UNIVERSITY OF HONG KONG DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE

Suggested / Example Structure of BSc (Major in Decision Analytics) Curriculum (for students admitted to Year 1 in 2021 and before)

Year	One		Two		Three		Four	
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary	COMP1117	MATH2014	STAT2602	COMP2119	MATH3904	COMP3278		STAT4609
	Computer	Multivariable	Probability and	Introduction to Data	Introduction to	Introduction to		Big Data Analytics
Core	Programming	Calculus and Linear	Statistics II	Structures and	Optimization	Database		
		Algebra		Algorithms		Management		
	MATH1013				STAT3612	Systems		
	University	STAT2601		STAT3600	Statistical Machine			
	Mathematics II	Probability and		Linear Statistical	Learning			
		Statistics I		Analysis				
Capstone and Other			COMP2113		Capstone (at least 6 credits)			
1			Programming		STAT3799 Directed Studies in Statistics			
			Technologies		STAT4710 Capstone Experience for Statistics Undergraduates STAT4766 Statistics Internship STAT4700 Statistics Project			
			(Pre-requisite of					
			COMP2119)					
					STAT4799 Statistics Project			
Disciplinary					At least 12 credits (2 courses) selected from the following courses: COMP3250 Design and Analysis of Algorithms			
Elective					COMP3251 ⁴ Algorithm Design			
					COMP3252 ⁴ Algorithm Design and Analysis			
					COMP3270 Artificial Intelligence			
					COMP3323	Advanced Databas		
					COMP3407 MATH3408	Scientific Computi		
					MATH3408Computational Methods and Differential Equations with ApplicationsMATH3600Discrete Mathematics			
					MATH3600 MATH3601	Numerical Analysi		
					MATH3901	Operations Research	ch I	
					STAT3010	Image Processing	and Computer Vision	
					STAT3620Modern Nonparametric StatisticsSTAT3621Statistical Data AnalysisSTAT3622Data Visualization			
					STAT3622 STAT3655	Survival Analysis		
					STAT4011	Natural Language	Processing	
					STAT4023	Medical Image An	alysis	
					STAT4601	Time-series Analy		
					STAT4602	Multivariate Data		
Science	SCNC1111	SCNC1112			STAT4610	Bayesian Learning		
Foundation	Scientific Method	Fundamentals of						
Courses	and Reasoning	Modern Science						
Common Core	Six common core courses within the first three years							
Language	CAE	S1000	CAES9820		CSCI9001			
Zungungo	Core University English		Academic English for Science Students		Practical Chinese for Science Students			
	(offered in both semesters)		or CAES9821		(offered in both semesters)			
			Professional & Technical Communication					
				tical Sciences				
			(offered in b	oth semesters)				

 Image: contract of the semester in the curriculum to fulfil the degree requirement of the First Major. Course replacement should only be applied for the other Major(s) or Minor(s).

Note 2: This table is for students' reference only for planning their studies ahead. Course offering semester and availability are subject to changes. Some courses are offered in both semesters.

Note 3: Please read the Faculty of Science's Student Handbook and Syllabuses & Regulations for more details.

Note 4: 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.