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 Core	COMP1117 Computer Programming MATH1013 University Mathematics II	MATH2014 Multivariable Calculus and Linear Algebra STAT2601 Probability and	STAT2602 Probability and Statistics II	COMP2119 Introduction to Data Structures and Algorithms STAT3600 Linear Statistical	MATH3904 Introduction to Optimization STAT3612 Statistical Machine Learning	COMP3278 Introduction to Database Management Systems		STAT4609 Big Data Analytics
Other		Statistics I	COMP2113 Programming Technologies (Pre-requisite of COMP2119)	Analysis			STAT3799 D STAT4710 C S STAT4766 S	least 6 credits) Pirected Studies in Statistics Capstone Experience for tatistics Undergraduates tatistics Internship
Disciplinary Elective					At least 12 credits (2 COMP3250 COMP3270 COMP3407 MATH3408 MATH3600 MATH3601 MATH3901 STAT3620 STAT3621 STAT3622 STAT3655 STAT4011 STAT4023 STAT4601 STAT4602	Artificial Intelligence Advanced Database Systems Scientific Computing Computational Methods and Differential Equations with Applications Discrete Mathematics Numerical Analysis Operations Research I Modern Nonparametric Statistics Statistical Data Analysis Data Visualization Survival analysis Natural language processing Medical image analysis Time-series Analysis		
Science Foundation Courses Common Core	SCNC1111 Scientific Method and Reasoning	SCNC1112 Fundamentals of Modern Science	common core courses	s within the first three				
Language	CAES1000  Core University English (offered in both semesters)		CAES9820 Academic English for Science Students or CAES9821 Professional & Technical Communication for Mathematical Sciences (offered in both semesters)		CSCI9001 Practical Chinese for Science Students (offered in both semesters)			

Note 1: If there are any courses (offered by SAAS or not) mutually exclusive to any Core courses, students must take the course stated 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.