

Suggested / Example Structure of BSc (Major in Decision Analytics) Curriculum (for students admitted to Year 1 in 2022 and thereafter)

Year	One		Two		Three		Four		
Semester	One	Two	One	Two	One	Two	One	Two	
Disciplinary Core	<b>COMP1117</b> Computer Programming  <b>MATH1013</b> University Mathematics II	<b>MATH2014</b> Multivariable Calculus and Linear Algebra  <b>STAT2601</b> Probability and Statistics I	<b>STAT2602</b> Probability and Statistics II	<b>COMP2119</b> Introduction to Data Structures and Algorithms  <b>STAT3600</b> Linear Statistical Analysis	<b>MATH3904</b> Introduction to Optimization  <b>STAT3612</b> Statistical Machine Learning	<b>COMP3278</b> Introduction to Database Management Systems		<b>STAT4609</b> Big Data Analytics	
Other			<b>COMP2113</b> Programming Technologies (Pre-requisite of COMP2119)				<b>Capstone</b> (at least 6 credits) <b>STAT3799</b> Directed Studies in Statistics <b>STAT4710</b> Capstone Experience for Statistics Undergraduates <b>STAT4766</b> Statistics Internship <b>STAT4799</b> Statistics Project		
Disciplinary Elective					At least 12 credits (2 courses) selected from the following courses: <b>COMP3250</b> Design and Analysis of Algorithms <b>COMP3270</b> Artificial Intelligence <b>COMP3323</b> Advanced Database Systems <b>COMP3407</b> Scientific Computing <b>STAT3620</b> Modern Nonparametric Statistics <b>STAT3621</b> Statistical Data Analysis <b>STAT3622</b> Data Visualization <b>STAT3655</b> Survival analysis <b>STAT4011</b> Natural language processing <b>STAT4023</b> Medical image analysis <b>STAT4601</b> Time-series Analysis <b>STAT4602</b> Multivariate Data Analysis <b>STAT4610</b> Bayesian Learning				
Science Foundation Courses	<b>SCNC1111</b> Scientific Method and Reasoning	<b>SCNC1112</b> Fundamentals of Modern Science							
Common Core	Six common core courses within the first three years								
Language	<b>CAES1000</b> Core University English (offered in both semesters)		<b>CAES9820</b> Academic English for Science Students or <b>CAES9821</b> Professional & Technical Communication for Mathematical Sciences (offered in both semesters)		<b>CSCI9001</b> 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.