

BStat (Professional Core in Decision Analytics) Suggested Study Plan A

Year	One		Two		Three		Four	
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary Core	MATH1013 University Mathematics II SDST1600 Statistics: Ideas and Concepts	COMP1117 Computer Programming	COMP2113 Programming Technologies SDST2601 Probability and Statistics I	COMP2118 Data Structures and Algorithms Essentials SDST2602 Probability and Statistics II	MATH3900 Optimization for AI and Data Analytics SDST3600 Linear Statistical Analysis	SDST3612 Statistical Machine Learning	SDST4610 Bayesian Learning	SDST4609 Big Data Analytics SDST4611 High-Dimensional Statistical Learning
Disciplinary Elective		<i>List A (for general study)</i>			At least 24 credits (4 courses) selected from the following courses: COMP3251 Algorithm Design COMP3252 Algorithm Design and Analysis COMP3278 Introduction to Database Management Systems COMP3407 Scientific Computing SDST3620 Modern Nonparametric Statistics SDST3621 Statistical Data Analysis SDST3622 Data Visualization SDST4011 Natural Language Processing SDST4023 Medical Image Analysis SDST4601 Time-Series Analysis SDST4602 Multivariate Data Analysis SDST4612 Interpretable Machine Learning SDST4613 Causal Inference SDST7609 Research Methods in Statistics			
		MATH2012 Fundamental Concepts of Mathematics	MATH2014 Multivariable Calculus and Linear Algebra					
		or						
		<i>List B (for advanced study)</i>						
		MATH2101 Linear Algebra I	MATH2211 Multivariable Calculus					
Capstone					At least 6 credits selected from the following courses: SDST3799 Directed Studies in Statistics SDST4710 Capstone Experience for Statistics Undergraduates SDST4766 Statistics Internship SDST4799 Statistics Project (12 credits)			
Other Courses	AILT1001 Artificial Intelligence Literacy I (3 credits)			AILT9019 Artificial Intelligence Literacy II (3 credits)				
Common Core	Six common core courses (36 credits) within the first three years							
Language	CAES1001 Academic Communication in English (0 credits) (offered in both semesters)		CAES9821 Professional and Technical Communication for Statistical Sciences (offered in both semesters)		CSCI9001 Practical Chinese for Science Students (to be confirmed) (offered in both semesters)			

Note 1: This suggested study plan is for students' reference only. Students can choose another subclass if a course is also offered in different semesters/time slots. However, students are reminded to check the course pre-requisites when planning their studies ahead, whilst course offering semester and availability are subject to changes every year. Please refer to the Student Handbook, Regulations and Syllabus for more details.

Note 2: Students may also choose to take more Disciplinary Core or Elective courses as free electives than the number stipulated above within the allowed course load.

Note 3: If there are any courses mutually exclusive to any Disciplinary Core courses, students must take the course stated in the curriculum to fulfil the degree requirement of the Professional Core. Course replacement should only be applied for the other Major(s) or Minor(s).

Note 4: Please refer to the Student Handbook for details about exemption of language courses if applicable.

BStat (Professional Core in Decision Analytics) Suggested Study Plan B (for students who had no calculus background in high school)

Year	One		Two		Three		Four		
Semester	One	Two	One	Two	One	Two	One	Two	
Disciplinary Core	SDST1600 Statistics: Ideas and Concepts	COMP1117 Computer Programming MATH1013 University Mathematics II	COMP2113 Programming Technologies	COMP2118 Data Structures and Algorithms Essentials SDST2601 Probability and Statistics I	MATH3900 Optimization for AI and Data Analytics SDST2602 Probability and Statistics II	SDST3600 Linear Statistical Analysis	SDST3612 Statistical Machine Learning SDST4610 Bayesian Learning	SDST4609 Big Data Analytics SDST4611 High-Dimensional Statistical Learning	
Disciplinary Elective			MATH2012 Fundamental Concepts of Mathematics	MATH2014 Multivariable Calculus and Linear Algebra	At least 24 credits (4 courses) selected from the following courses: COMP3251 Algorithm Design COMP3252 Algorithm Design and Analysis COMP3278 Introduction to Database Management Systems COMP3407 Scientific Computing SDST3620 Modern Nonparametric Statistics SDST3621 Statistical Data Analysis SDST3622 Data Visualization SDST4011 Natural Language Processing SDST4023 Medical Image Analysis SDST4601 Time-Series Analysis SDST4602 Multivariate Data Analysis SDST4612 Interpretable Machine Learning SDST4613 Causal Inference SDST7609 Research Methods in Statistics				
Capstone and Other Courses	AILT1001 Artificial Intelligence Literacy I (3 credits) MATH1011 University Mathematics I		AILT9019 Artificial Intelligence Literacy II (3 credits)		At least 6 credits selected from the following courses: SDST3799 Directed Studies in Statistics SDST4710 Capstone Experience for Statistics Undergraduates SDST4766 Statistics Internship SDST4799 Statistics Project (12 credits)				
Common Core	Six common core courses (36 credits) within the first three years								
Language	CAES1001 Academic Communication in English (0 credits) (offered in both semesters)		CAES9821 Professional and Technical Communication for Statistical Sciences (offered in both semesters)		CSCI9001 Practical Chinese for Science Students (to be confirmed) (offered in both semesters)				

Note 1: This suggested study plan is for students' reference only. Students can choose another subclass if a course is also offered in different semesters/time slots. However, students are reminded to check the course pre-requisites when planning their studies ahead, whilst course offering semester and availability are subject to changes every year. Please refer to the Student Handbook, Regulations and Syllabus for more details.

Note 2: Students may also choose to take more Disciplinary Core or Elective courses as free electives than the number stipulated above within the allowed course load.

Note 3: If there are any courses mutually exclusive to any Disciplinary Core courses, students must take the course stated in the curriculum to fulfil the degree requirement of the Professional Core. Course replacement should only be applied for the other Major(s) or Minor(s).

Note 4: Please refer to the Student Handbook for details about exemption of language courses if applicable.