

BStat (Professional Core in Statistics) 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	SDST2601 Probability and Statistics I	SDST2602 Probability and Statistics II	SDST3600 Linear Statistical Analysis SDST3603 Stochastic Processes SDST3620 Modern Nonparametric Statistics	SDST3621 Statistical Data Analysis	SDST3602 Statistical Inference SDST4610 Bayesian Learning	SDST4602 Multivariate Data Analysis	
Disciplinary Elective	<i>List A (for general study)</i>		<p><i>At least 30 credits (5 courses) selected from the following courses in List S1 and List S2.</i></p> <p>At least 6 credits (1 course) in <i>List S1 (mainstream statistical topics)</i>:</p> <p>SDST3612 Statistical Machine Learning SDST3655 Survival Analysis SDST4601 Time-Series Analysis</p> <p>At least 12 credits (2 courses) in <i>List S2 (statistical applications and other advanced topics)</i>:</p> <p>SDST3021 Modern Biostatistics SDST3613 Marketing Analytics SDST3604 Design and Analysis of Experiments SDST3617 Sample Survey Methods SDST3606 Business Logistics SDST4611 High-Dimensional Statistical Learning SDST3607 Statistics in Clinical Medicine and Bio-medical Research SDST4613 Causal Inference SDST3608 Statistical Genetics SDST7609 Research Methods in Statistics SDST7610 Advanced Probability</p>						
	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					<p>At least 6 credits selected from the following courses:</p> <p>SDST3799 Directed Studies in Statistics SDST4710 Capstone Experience for Statistics Undergraduates SDST4766 Statistics Internship SDST4799 Statistics Project (12 credits)</p>				
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 Statistics) 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		SDST2601 Probability and Statistics I	SDST2602 Probability and Statistics II SDST3603 Stochastic Processes	SDST3600 Linear Statistical Analysis	SDST3602 Statistical Inference SDST3620 Modern Nonparametric Statistics SDST4610 Bayesian Learning	SDST3621 Statistical Data Analysis SDST4602 Multivariate Data Analysis	
Disciplinary Elective			MATH2012 Fundamental Concepts of Mathematics	MATH2014 Multivariable Calculus and Linear Algebra	<p>At least 30 credits (5 courses) selected from the following courses in <i>List S1</i> and <i>List S2</i>. At least 6 credits (1 course) in <i>List S1</i> (<i>mainstream statistical topics</i>): SDST3612 Statistical Machine Learning SDST3655 Survival Analysis SDST4601 Time-Series Analysis At least 12 credits (2 courses) in <i>List S2</i> (<i>statistical applications & other advanced topics</i>): SDST3021 Modern Biostatistics SDST3613 Marketing Analytics SDST3604 Design and Analysis of Experiments SDST3617 Sample Survey Methods SDST3606 Business Logistics SDST4611 High-Dimensional Statistical Learning SDST3607 Statistics in Clinical Medicine and Bio-medical Research SDST4613 Causal Inference SDST3608 Statistical Genetics SDST7609 Research Methods in Statistics SDST7610 Advanced Probability</p>				
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.