BStat (Professional Core in Risk Management) Suggested Study Plan A

<table>
<tr><td>Year</td><td colspan="2">One</td><td colspan="2">Two</td><td colspan="2">Three</td><td colspan="2">Four</td></tr>
<tr><td>Semester</td><td>One</td><td>Two</td><td>One</td><td>Two</td><td>One</td><td>Two</td><td>One</td><td>Two</td></tr>
<tr><td>Disciplinary Core</td><td>MATH1013
University Mathematics II

SDST1600
Statistics: Ideas and Concepts</td><td>COMP1117
Computer Programming</td><td>SDST2601
Probability and Statistics I</td><td>SDST2602
Probability and Statistics II

SDST3615
Practical Mathematics for Investment</td><td>SDST3600
Linear Statistical Analysis

SDST3609
The Statistics of Investment Risk</td><td>SDST3618
Derivatives and Risk Management</td><td>SDST4601
Time-Series Analysis

SDST4610
Bayesian Learning</td><td>SDST4607
Credit Risk Analysis

SDST4608
Market Risk Analysis</td></tr>
<tr><td>Disciplinary Elective</td><td></td><td>List A (for general study)
MATH2012
Fundamental Concepts of Mathematics
or
List B (for advanced study)
MATH2101
Linear Algebra I</td><td>MATH2014
Multivariable Calculus and Linear Algebra

MATH2211
Multivariable Calculus</td><td colspan="4">At least 24 credits (4 courses) selected from the following courses:
SDST3602 Statistical Inference
SDST3603 Stochastic Processes
SDST3610 Risk Management and Insurance
SDST3612 Statistical Machine Learning
SDST3655 Survival Analysis
SDST3910 Financial Economics I
SDST3911 Financial Economics II
SDST4603 Current Topics in Risk Management
SDST4606 Risk Management and Basel Accords in Banking and Finance
SDST4614 Quantitative Risk Management
SDST7609 Research Methods in Statistics
SDST7610 Advanced Probability</td></tr>
<tr><td>Capstone</td><td></td><td></td><td></td><td></td><td colspan="4">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)</td></tr>
<tr><td>Other Courses</td><td>AILT1001
Artificial Intelligence Literacy I (3 credits)</td><td></td><td></td><td>AILT2001
Artificial Intelligence Literacy II (3 credits)</td><td></td><td></td><td></td><td></td></tr>
<tr><td>Common Core</td><td colspan="6">Six common core courses (36 credits) within the first three years</td><td></td><td></td></tr>
<tr><td>Language</td><td colspan="2">CAES1001
Academic Communication in English
(0 credits)

(offered in both semesters)</td><td colspan="2">CAES9821
Professional & Technical Communication for Statistical Sciences

(offered in both semesters)</td><td colspan="2">CSCI9001
Practical Chinese for Science Students
(to be confirmed)

(offered in both semesters)</td><td></td><td></td></tr>
</table>

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 Risk Management) 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 **SDST3615** Practical Mathematics for Investment	**SDST2602** Probability and Statistics II **SDST3609** The Statistics of Investment Risk	**SDST3600** Linear Statistical Analysis **SDST3618** Derivatives and Risk Management	**SDST4601** Time-Series Analysis **SDST4610** Bayesian Learning	**SDST4607** Credit Risk Analysis **SDST4608** Market Risk Analysis
Disciplinary Elective			**MATH2012** Fundamental Concepts of Mathematics	**MATH2014** Multivariable Calculus and Linear Algebra	At least 24 credits (4 courses) selected from the following courses: **SDST3602** Statistical Inference **SDST3603** Stochastic Processes **SDST3610** Risk Management and Insurance **SDST3612** Statistical Machine Learning **SDST3655** Survival Analysis **SDST3910** Financial Economics I **SDST3911** Financial Economics II **SDST4603** Current Topics in Risk Management **SDST4606** Risk Management and Basel Accords in Banking and Finance **SDST4614** Quantitative Risk Management **SDST7609** Research Methods in Statistics **SDST7610** Advanced Probability			
Capstone and Other Courses	**AILT1001** Artificial Intelligence Literacy I (3 credits) **MATH1011** University Mathematics I		**AILT2001** 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 & 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.