

Four-Year Study Plan of Statistics Programme (2020 cohort)

Rev 20230911

Course Code	Course Title	Year One			Year Two		Year Three		Year Four	
		Sem 1	Sem 2	Summer/ Winter	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
I. Major Required Courses (42 Units)										
MATH1053	Linear Algebra I	3								
MATH1073	Calculus I	3								
MATH1063	Linear Algebra II		3							
MATH1083	Calculus II		3							
OR3013	Linear Programming and Integer Programming				3					
OR4023	Optimization				3					
STAT2003	Advanced Statistics				3					
STAT2043	Structured Programming (for STAT Students)				3					
OR3023	Simulation					3				
STAT2013	Regression Analysis					3				
STAT4013	Multivariate Analysis						3			
STAT4063	Time Series Analysis						3			
STAT4043	Categorical Data Analysis							3		
STAT4004	Final Year Project I (STAT)								3	
II. Major Elective Courses (18 Units)										
ME01 ME02 ME03 ME04 ME05 ME06							3	6	6	3 ^⓪
III. General Education Core Courses (32 Units)										
CHI1053	University Chinese (Morality and Foundations of Law)	3								
CHI1063	Chinese Culture and Modern China					3				
CHI1073	Contemporary Chinese Society and Thoughts (Theories)		3							
CHI1083	Contemporary Chinese Society and Thoughts (Social Practice)		0							
CHI1093	Contemporary World and China ^⓪					0				
GCLA1903	English I	3								
GCLA1913	English II		3							
GCLA1923	English III				3					
GCLA1933	English IV					3				
GCIT1XX3	Information Management Technology ^⓪	3								
GCNU1XX3	Numeracy ^⓪		3							
GCPE1XX3	Physical Education ^⓪	1	1							
GCVM1013	Applied Ethics in Science and Technology								3	
IV. General Education Distribution Courses (12 Units)										
GDBM1XX3	Foundation Course in Business and Management ^⓪					3				
GDHS1XX3	Foundation Course in Humanities and Social Sciences ^⓪							3		
GDFL1XX3	Foundation Course in Foreign Language ^⓪						3			
GDHC1XX3	Foundation Course in World History and Civilisation ^⓪								3	
V. Whole Person Education Experiential Learning Modules (4 Units)										
WPEX Module I	WPEX1003 Experiential Development	1								
WPEX Module II	WPEX1013 Emotional Intelligence		1							
WPEX Module III	WPEX2003 Sports Culture ^⓪ , or WPEX2013 Experiential Arts ^⓪				1					
WPEX Module IV	WPEX2023 Voluntary Service ^⓪ , or WPEX2033 Environmental Awareness ^⓪					1				
VI. Free Elective Courses (24 Units)										
FE01 FE02 FE03 FE04 FE05 FE06 FE07 FE08				3 ^⓪	3	3	6 ^⓪	6	3	
Total Units: 132		17	17	3	19	19	18	18	18	3

⓪ This denotes a course category in which a list of courses may be developed for students' selection. Students are expected to refer to the Online Course Selection System for courses available under each category.

⓪ This course will take the form of lecture series. Students are required to attend and submit notes for at least 10 lectures within their first two years of study.

⓪ CHI1103 Introduction to Modern Social Theories will be offered under this category.

⓪ Students should take one FE(ENG) course under this category.

⓪ Students who continue with the final year project in the second semester of Year 4 should register STAT4005 Final Year Project II (STAT) as a major elective during the Online Course Selection (or Course Add/Drop) period.

ME Course List of STAT (2020 cohort)

Rev 20230426

Course Code	Course Title	Units
COMP4163	Neural Networks and Deep Learning	3
DS4023	Machine Learning	3
DS4033	Text Mining and Analytics	3
DS4043	Introduction to Statistical Computing	3
DS4053	Introduction to Bioinformatics	3
MATH2013	Introduction to Mathematical Finance*	3
MATH4003	Graph Theory	3
MATH4013	Real Analysis	3
MATH4023	Differential Equation	3
MATH4033	Computational Finance*	3
MATH4043	Actuarial Mathematics*	3
MATH4053	Numerical Methods	3
MATH4063	Case Studies in Mathematical Modelling	3
OR3003	Logistics	3
OR4003	Dynamic Programming Inventory Control	3
OR4013	Advanced Topics in Operations Research	3
OR4033	Network and Transportation Models	3
STAT3003	Survey Sampling	3
STAT3013	Life Contingencies*	3
STAT3023	Quality Control - Six Sigma	3
STAT3033	Bayesian Statistics	3
STAT3043	Data Analysis Using R	3
STAT4003	Experimental Design	3
STAT4005	Final Year Project II (STAT)#	3
STAT4023	Loss Models*	3
STAT4033	Structural Equation Modelling	3
STAT4053	Survival Analysis	3
STAT4073	Data Mining	3
STAT4093	Applied Stochastic Process	3
STAT4103	Introduction to Deep Learning with Python	3
STAT4113	Nonparametric Statistics	3

* Actuarial science course.

Students who continue with the final year project in the second semester of Year 4 should, with the approval of the Programme, register STAT4005 Final Year Project II (STAT) as a major elective in that semester.