

Hong Kong Baptist University
Curriculum for Minor Programmes

Minor Programme : Statistics (*STATISTICS)

Bulletin Year : 2016

Course Group	Course	Course Title	Unit	Core (C) / Elective (E)
Statistics Minor Core Courses (#R-STAT-CORE-001)				
	MATH2005	Probability and Statistics for Computer Science	3.00	E
	MATH2006	Probability and Statistics for Science	3.00	E
	MATH2206	Probability and Statistics	3.00	E
	MATH2207	Linear Algebra	3.00	E
Statistics Minor Elective Courses (#R-STAT-ELECT-001)				
	MATH3805	Regression Analysis	3.00	E
	MATH3806	Multivariate Statistical Methods	3.00	E
	MATH3807	Simulation	3.00	E
Statistics Minor Elective Courses (#R-STAT-ELECT-002)				
	MATH1005	Calculus	3.00	E
	MATH1006	Advanced Calculus I	3.00	E
	MATH1025	Introduction to Mathematics and Statistics	3.00	E
	MATH1205	Discrete Mathematics	3.00	E
	MATH2205	Multivariate Calculus	3.00	E
	MATH2215	Mathematical Analysis	3.00	E
	MATH2216	Statistical Methods and Theory	3.00	E
	MATH2217	Advanced Calculus II	3.00	E
	MATH2225	Calculus II	3.00	E
	MATH3205	Linear and Integer Programming	3.00	E
	MATH3206	Numerical Methods I	3.00	E
	MATH3425	Graph Theory	3.00	E
	MATH3626	Computational Statistics for Data Science	3.00	E
	MATH3815	Statistical Design and Analysis of Experiments	3.00	E
	MATH3816	Statistical Analysis of Sample Surveys	3.00	E
	MATH3817	Dynamic Programming and Inventory Models	3.00	E
	MATH3825	Life Insurance and Life Contingencies	3.00	E
	MATH3826	Markov Chain and Queuing Theory	3.00	E
	MATH3827	Network Models	3.00	E
	MATH3836	Data Mining	3.00	E
	MATH3837	Actuarial Mathematics	3.00	E
	MATH4206	Financial Derivatives	3.00	E
	MATH4207	Computational Finance	3.00	E
	MATH4216	Mathematical Finance	3.00	E
	MATH4685	Special Topics in Actuarial Statistics I	3.00	E
	MATH4686	Special Topics in Actuarial Statistics II	3.00	E
	MATH4687	Special Topics in Actuarial Statistics III	3.00	E
	MATH4805	Applied Nonparametric Statistics	3.00	E
	MATH4807	Categorical Data Analysis	3.00	E
	MATH4815	Interior Point Methods for Optimization	3.00	E
	MATH4816	Optimization Theory and Techniques	3.00	E
	MATH4817	Stochastic Models	3.00	E
	MATH4825	Survival Analysis	3.00	E
	MATH4826	Time Series and Forecasting	3.00	E
	MATH4865	Special Topics in Operations Research I	3.00	E
	MATH4866	Special Topics in Operations Research II	3.00	E
	MATH4867	Special Topics in Operations Research III	3.00	E
	MATH4875	Special Topics in Statistics I	3.00	E
	MATH4876	Special Topics in Statistics II	3.00	E
	MATH4877	Special Topics in Statistics III	3.00	E

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- Remarks:
1. Students are required to take the core courses of MATH2005 / MATH2006 / MATH2206 (either one), and MATH2207; one course from #R-STAT-ELECT-001; and two courses from #R-STAT-ELECT-001 or #R-STAT-ELECT-002. At least one course must be at Level 3 or 4.
 2. BSC CIS and BSC COMP SCI students are not allowed to use MATH1205 and MATH2005 to fulfill the Minor requirement. They are required to take other elective courses from #R-STAT-ELECT-001 or #R-STAT-ELECT-002.
 3. Students of Faculty of Science are not allowed to use MATH1005 or MATH1006 to fulfill the Minor requirement. They are required to take other elective course from #R-STAT-ELECT-001 or #R-STAT-ELECT-002.
 4. For non-SCI students, they can take either MATH1005 or MATH1006.

* 4-Year Curriculum