Full-time 4-year Undergraduate Degrees - Minor Studies

1.	**Title of Minor Programme & Programme Code**	Minor in Applied Mathematics (63421-YAM)				
2.	**Offering Department(s) in Full & in Abbreviation**	Department of Applied Mathematics (AMA)				
3.	**Requirement for Claiming the Minor Award**	**For students (Full-time 4-year Undergraduate Degrees)** 18 credits, including 6 credits core (compulsory) subjects and 12 credits electives, of which at least 9 credits are at level 3 or above.				
4.	**Exclusive Programme(s) & Programme Code(s)**	Students of BSc(Hons) in Investment Science (63423/63423-SY) Students of BSc(Hons) in Investment Science and Finance Analytics (63426/63426-SY/63428-IFA) Students of BSc(Hons) in Data Science and Analytics (63428/63428-SYD/63428-DSA) Students of BSc(Hons) in Investment Science and Finance Analytics with a Secondary Major in AI & Data Analytics (63428-XAF) Students of BSc(Hons) in Data Science and Analytics with a Secondary Major in Innovation and Entrepreneurship (63428-XID)				
5.	**Professional Recognition**	-				
	One Statistics course from below					
	AMA1501	Introduction to Statistics for Business	AMA	1	3	Compulsory
	AMA1602	Introduction to Statistics	AMA	1	3	
	AND One Calculus course from below					
	AMA2111	Mathematics I	AMA	2	3	Compulsory
	AMA2131	Mathematics for Engineers	AMA	2	3	
	AMA2380	Engineering Mathematics	AMA	2	3	
	AMA2707	Intermediate Calculus and Linear Algebra	AMA	2	3	
	AMA2882	Mathematics for Scientists and Engineers	AMA	2	4	
	Electives: Choose FOUR subjects from the following lists, THREE at level 3 or above					
	AMA2104	Probability and Engineering Statistics	AMA	2	3	Elective
	AMA2112	Mathematics II	AMA	2	3	Elective
	AMA2691	Probability & Distributions	AMA	2	3	Elective
	AMA3201	Computational Methods	AMA	3	3	Elective
	AMA3231	Numerical Methods and Computing	AMA	3	3	Elective
	AMA3304	Theory of Interest and Portfolio Analysis	AMA	3	3	Elective
	AMA3602	Applied Linear Models for Finance Analytics	AMA	3	3	Elective
	AMA3640	Statistical Inference	AMA	3	3	Elective
	AMA3658	Stochastic Processes for Investment	AMA	3	3	Elective
	AMA3707	Real Analysis	AMA	3	3	Elective
	AMA3708	Differential Equations	AMA	3	3	Elective
	AMA3724	Further Mathematical Methods	AMA	3	3	Elective
	AMA3820	Operations Research Methods	AMA	3	3	Elective
	AMA4325	Derivative Pricing	AMA	4	3	Elective

AMA4363	Loss Models	AMA	4	3	Elective
AMA4380	Algorithmic and High Frequency Trading	AMA	4	3	Elective
AMA4381	Econometrics	AMA	4	3	Elective
AMA4390	Quantitative Finance and Financial Technology	AMA	4	3	Elective
AMA4602	High Dimensional Data Analysis	AMA	4	3	Elective
AMA4650	Forecasting and Applied Time Series Analysis	AMA	4	3	Elective
AMA4688	Simulation	AMA	4	3	Elective
AMA4840	Decision Analysis	AMA	4	3	Elective
AMA4850	Optimization Methods	AMA	4	3	Elective

For detailed syllabus and subject pre-requisite/co-requisite/exclusion requirement, please visit the following AR subject registration website:

Location: http://www.polyu.edu.hk/student > Subject Registration > Subject Information

For details of the programme, please visit the Department website at https://www.polyu.edu.hk/ama/study/ug/minor/