

Electives

Subject Code	Subject Title	Level	Credit	Assessment CA : EXAM (%)
<u>AMA2104</u>	Probability and Engineering Statistics	2	3	40:60
<u>AMA2112</u>	Mathematics II	2	3	40:60
<u>AMA2691</u>	Probability & Distributions	2	3	40:60
<u>AMA3201</u>	Computational Methods	3	3	40:60
<u>AMA3231</u>	Numerical Methods and Computing	3	3	40:60
<u>AMA3304</u>	Theory of Interest and Portfolio Analysis	3	3	40:60
<u>AMA3602</u>	Applied Linear Models	3	3	40:60
<u>AMA3640</u>	Statistical Inference	3	3	40:60
<u>AMA3658</u>	Stochastic Processes for Investment	3	3	40:60
<u>AMA3707</u>	Real Analysis	3	3	40:60
<u>AMA3708</u>	Differential Equations	3	3	40:60
<u>AMA3724</u>	Further Mathematical Methods	3	3	40:60
<u>AMA3820</u>	Operations Research Methods	3	3	40:60
<u>AMA4325</u>	Derivative Pricing	4	3	40:60
<u>AMA4363</u>	Loss Models	4	3	40:60
<u>AMA4380</u>	Algorithmic and High Frequency Trading	4	3	50:50
<u>AMA4381</u>	Econometrics	4	3	40:60
<u>AMA4390</u>	Quantitative Finance and Financial Technology	4	3	50:50
<u>AMA4602</u>	High Dimensional Data Analysis	4	3	40:60
<u>AMA4650</u>	Forecasting and Applied Time Series Analysis	4	3	40:60
<u>AMA4688</u>	Simulation	4	3	40:60
<u>AMA4840</u>	Decision Analysis	4	3	40:60
<u>AMA4850</u>	Optimization Methods	4	3	40:60

The list shows the nature of subjects for students' reference.

<i>Subject Code</i>	<i>Subject Title</i>	<i>Nature of Subject</i>
AMA2111	Mathematics I	Applied Mathematics
AMA2112	Mathematics II	Applied Mathematics
AMA2131	Mathematics for Engineers	Applied Mathematics
AMA2380	Engineering Mathematics	Applied Mathematics
AMA2707	Intermediate Calculus and Linear Algebra	Applied Mathematics
AMA2882	Mathematics for Scientists and Engineers	Applied Mathematics
AMA3201	Computational Methods	Applied Mathematics
AMA3231	Numerical Methods and Computing	Applied Mathematics
AMA3707	Real Analysis	Applied Mathematics
AMA3708	Differential Equations	Applied Mathematics
AMA3724	Further Mathematical Methods	Applied Mathematics
<i>Subject Code</i>	<i>Subject Title</i>	<i>Nature of Subject</i>
AMA1501	Introduction to Statistics for Business	Applied Statistics
AMA1602	Introduction to Statistics	Applied Statistics
AMA2104	Probability and Engineering Statistics	Applied Statistics
AMA2691	Probability & Distributions	Applied Statistics
AMA3602	Applied Linear Models	Applied Statistics
AMA3640	Statistical Inference	Applied Statistics
AMA3658	Stochastic Processes for Investment	Applied Statistics
AMA4363	Loss Models	Applied Statistics
AMA4381	Econometrics	Applied Statistics
AMA4602	High Dimensional Data Analysis	Applied Statistics
AMA4650	Forecasting and Applied Time Series Analysis	Applied Statistics
<i>Subject Code</i>	<i>Subject Title</i>	<i>Nature of Subject</i>
AMA3304	Theory of Interest and Portfolio Analysis	Financial Mathematics
AMA4325	Derivative Pricing	Financial Mathematics
AMA4380	Algorithmic and High Frequency Trading	Financial Mathematics
AMA4390	Quantitative Finance and Financial Technology	Financial Mathematics
<i>Subject Code</i>	<i>Subject Title</i>	<i>Nature of Subject</i>
AMA3820	Operations Research Methods	Operational Research
AMA4688	Simulation	Operational Research
AMA4840	Decision Analysis	Operational Research
AMA4850	Optimization Methods	Operational Research

The diagram shows the possible study patterns of the Minor Programme for the 2019/20, the 2020/21, the 2021/22, and the 2022/23 cohort intakes for students' reference.

