

SENIOR MATHEMATICS COURSES

	Unit 1	Unit 2	Unit 3	Unit 4
Essential Mathematics (A)	<ul style="list-style-type: none"> • Calculations, percentages and rates • Measurement • Algebra • Graphs 	<ul style="list-style-type: none"> • Representing and comparing data • Percentages • Rates and ratios • Time and motion 	<ul style="list-style-type: none"> • Measurement • Scales, plans and models • Graphs • Data collection 	<ul style="list-style-type: none"> • Probability and relative frequencies • Earth geometry and time zones • Loans and compound interest
Mathematical Applications (T)	<ul style="list-style-type: none"> • consumer arithmetic • algebra and matrices • shape and measurement 	<ul style="list-style-type: none"> • univariate data analysis and the statistical investigation process • applications of trigonometry • linear equations and their graphs 	<ul style="list-style-type: none"> • bivariate data analysis • growth and decay in sequences • graphs and networks 	<ul style="list-style-type: none"> • time series analysis • loans, investments and annuities • networks and decision mathematics
Mathematical Methods (T)	<ul style="list-style-type: none"> • Functions and graphs • Trigonometric functions • Counting and probability 	<ul style="list-style-type: none"> • Exponential functions • Arithmetic and geometric sequences and series • Introduction to differential calculus 	<ul style="list-style-type: none"> • Further differentiation and applications • Integrals • Discrete random variables 	<ul style="list-style-type: none"> • The logarithmic function • Continuous random variables and the normal distribution • Interval estimates for proportions
Specialist Methods (T)	<ul style="list-style-type: none"> • Functions and graphs • Trigonometric functions • Counting and Probability 	<ul style="list-style-type: none"> • Exponential functions • Arithmetic and geometric sequences and series • Introduction to differential calculus 	<ul style="list-style-type: none"> • The logarithmic function • Further differentiation and applications • Integrals 	<ul style="list-style-type: none"> • Simple linear regression • Discrete random variables • Continuous random variables and the normal distribution • Interval estimates for proportions
Specialist Mathematics (T)	<ul style="list-style-type: none"> • Combinatorics • Vectors in the plane • Geometry 	<ul style="list-style-type: none"> • Trigonometry • Matrices • Real and complex numbers 	<ul style="list-style-type: none"> • Complex numbers • Functions and sketching graphs • Vectors in three dimensions 	<ul style="list-style-type: none"> • Integration and applications of integration • Rates of change and differential equations • Statistical inference